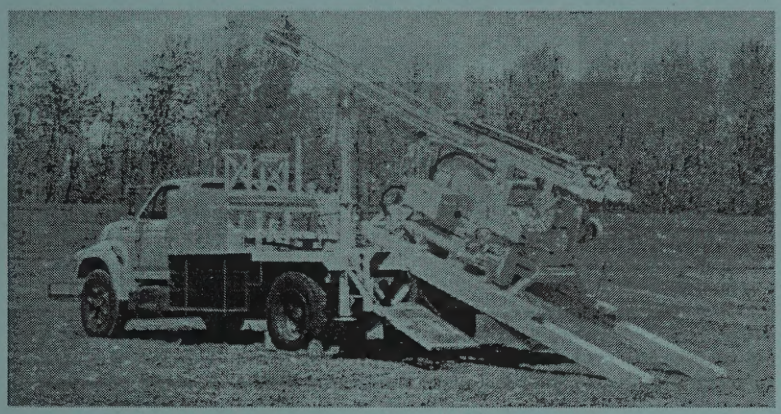
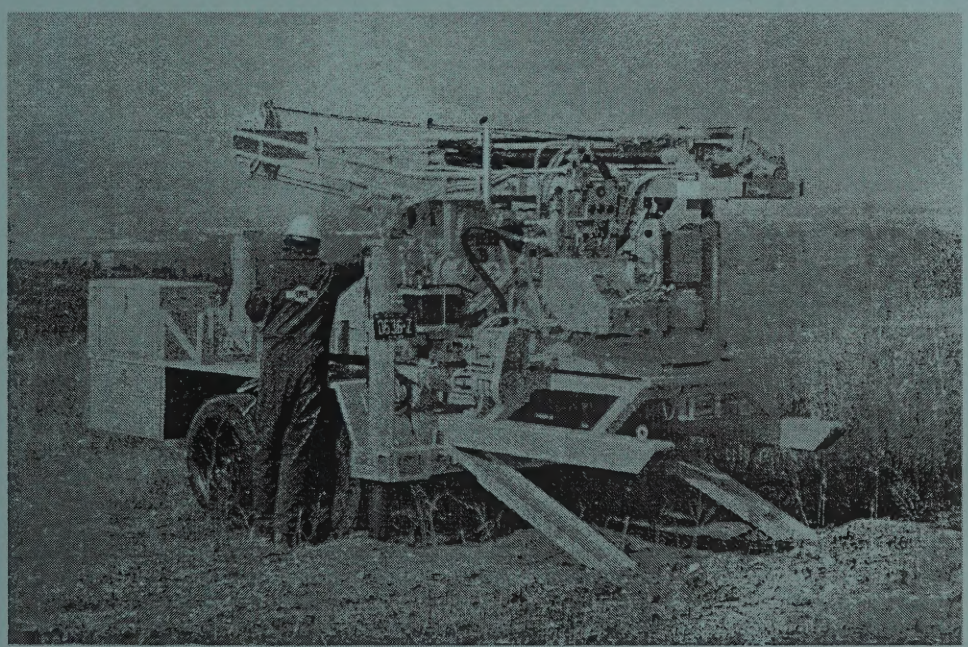
DRILL TOOL CATALOG





NYSDOT
GEOTECHNICAL ENGINEERING BUREAU

February 13, 2003

Table of Contents

Instructions for Use of Drilling Equipment Catalog ii

Metric Conversion Charts iii

Tools in an Alphabetical Order 1-24

Tools by Group 25-93

AU (Augers) 25-33

BT (BITS) 34-36

CB (Core Barrels) 37-42

CP (Casing & Pipe) 43-49

DB (Diamond Bits) 50-52

DT (Drilling Tools) 53-58

HO (Hoses) 59-63

HT (Hand Tools) 64-70

PB (Pavement Bits) 72-73

PI (Personal Items) 74-76

RD (Rods) 77-79

RP (Rope) 80-81

SA (Samplers) 82-86

SB (Subs) 87-93

NYSDOT
Library
50 Wolf Road, POD 34
Albany, New York 12232

INSTRUCTIONS FOR USE OF DRILLING EQUIPMENT CATALOG

This catalog is categorized in two separate ways for your convenience. The first section is listed in alphabetical order, the second section is listed by group.

The drill tool requests (SM 451 - 5/81) are to be used by the driller to communicate a need for equipment. The driller must familiarize himself with the proper drill tool nomenclature in order to use the catalog properly. In order to find a particular piece of equipment, it should be found under the actual name, for example, **"ROD LIFTER"** will be found under **"LIFTER, ROD"**; **"WATER SWIVEL"** will be found under **"SWIVEL, WATER."**

1. The driller enters his name, region and date.

2. The driller picks the items needed from the catalog and enters the item number, the description, and the quantity needed. Some items have photos in each group to assist in ordering equipment.

3. If the driller cannot find the item in the catalog, he should enter the complete description and quantity.

4. If special or reoccurring problems are encountered with the tools furnished, it should be noted under "Comments on Tools Furnished".

5. The request should be submitted once every two (2) weeks along with the time sheets, by the driller to the Geotechnical Engineer for his approval and signature.

6. The gold copy of the request should be held by the Regional Geotechnical Office.

7. The remaining copies will be forwarded to the Geotechnical Engineering Bureau where the items will be furnished from stock or ordered from a vendor. This will be indicated on the request, and the white copy will be returned to the driller, along with any reply to the driller's comments under "Office Use Reply."

8. The comment section may be used to request assistance on any drilling problem as well as tool problems.

9. This catalog may be updated to include items not listed approximately every twelve (12) months.

10. All catalog items are to be ordered by the driller unless otherwise indicated.

    a). A single asterisk (*) indicates items to be ordered by the Geotechnical Office.

    b). A double asterisk (**) indicates the item is to be ordered by the Geotechnical Office and returned to the Main Office upon completion of the job.

    c). A triple asterisk (***) indicates items to be ordered by the individual for personal use such as boots, hats, etc. (include size and color if applicable).

Meters	To	Feet
0.2		0.66
0.4		1.31
0.6		1.97
0.8		2.62
1		3.28
2		6.56
3		9.84
4		13.12
5		16.40
6		19.68
7		22.97
8		26.25
9		29.53
10		32.81
11		36.09
12		39.37
13		42.65
14		45.93
15		49.21
16		52.49
17		55.77
18		59.05
19		62.34
20		65.62

Inches	To	mm
1		25.4
2		50.8
3		76.2
4		101.6
5		127.0
6		152.4
7		177.8
8		203.2
9		228.6
10		254.0
11		279.4
12		304.8
13		330.2
14		355.6
15		381.0
16		406.4
17		431.8
18		457.2

mm	To	inches
1		0.04
10		0.39
20		0.8
150		6
300		12
450		18

Feet	To	Meters
1		0.30
2		0.61
3		0.91
4		1.22
5		1.52
6		1.83
7		2.13
8		2.44
9		2.74
10		3.05
11		3.35
12		3.66
13		3.96
14		4.27
15		4.57
16		4.88
17		5.18
18		5.49
19		5.79
20		6.10
21		6.40
22		6.71
23		7.01
24		7.32
25		7.62
26		7.92
27		8.23
28		8.53
29		8.84
30		9.14
31		9.45
32		9.75
33		10.06
34		10.36
35		10.67
36		10.97
37		11.28
38		11.58
39		11.89
40		12.19
41		12.50
42		12.80
43		13.11
44		13.41
45		13.72
46		14.02
47		14.33
48		14.63
49		14.94
50		15.24

Common Conversion Factors

UNIT	MEASURES...	MULTIPLY BY:	TO GET:
m	*length*	*3.28*	feet
mm	*length*	*0.04*	inches
kPa	*pressure*	*0.145*	p.s.i.
kg	*weight*	*2.21*	pounds
L	*volume*	*0.264*	gallons

Common Equivilancies

Metric	English
150 mm	6 in
300 mm	12 in
450 mm	18 in
600 mm	24 in
760 mm	30 in
1.5 m	5 ft
136.3 kg	300 lb
63.6 kg	140 lb

DRILL TOOL CATALOG

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
10	DB	$75.00	ADAPTOR, HEAD (108 MM EXP. FOR THIN WALL BIT)	{4¼"}
11	DB	$45.00	ADAPTOR, HEAD FOR 2-1/2 BITS	{2½"}
20	DB	$85.00	ADAPTOR, HEAD (158.8 MM EXP. FOR THIN WALL BIT)	{6¼"}
30	CP	$.75	ADAPTORS (25.4 MM PVC STAB TO 25.4 MM PIPE FEMALE)	{1"}
33	CP	$9.68	6" PVCPRS MALE ADPT. SLIP TO MALE	
35	CP	$.76	ADAPTORS (25.4 MM PVC STAB TO 25.4 MM MALE PIPE)	{1"}
36	CP	$14.30	6" PVC ADAPT SLIP TO FEMALE	
40	HT	$39.00	AUGER, IWAN 150 MM	{6"}
50	HT	$35.00	AUGER, IWAN 100 MM	{4"}
55	HT	$40.00	AUGER, IWAN 75 MM	{3"}
60	HT	$15.00	AUGER, IWAN 50 MM	{2"}
70	DT	$490.00	AUGER, JET 92 MM	{3⅝"}
80	DT	$480.00	AUGER, JET (92 MM WITH CALYX)	{3⅝"}
90	DT	$95.00	AUGER, JET (79 MM)	{3⅛"}
100	HT	$10.05	AXES, SINGLE BIT	
105	AU	$114.00	BAR, 41 MM HEX, AUGER EXT. ***See Photo on Page 28.***	{1⅝"}
110	DT	$84.00	BAR, JAR (63.5 MM DOUBLE EXTRA HEAVY)	{2½"}
120	HT	$3.22	BAR, PINCH (600 MM)	{24"}
121	HT	$25.00	BAR PRY 141/2" 1C050	
125	HT	$40.00	BAR, POLE (2 M)	{6'}
130	HT	$48.69	BAR, POLE (2.4 M)	{8'}
150	CB	$154.00	BARREL, CORE ("AWX" S.T. 1.5 M/AW ROD CONN)	{5'}
155	CB	$595.00	BARREL, CORE (AW 34 D.T. 1.5 M/AW ROD CONN) ***See Photo on Page 42.***	{5'}
170	CB	$280.00	BARREL, CORE ("AWM" D.T. 1.5 M/AW ROD CONN)	{5'}
190	CB	$179.00	BARREL, CORE ("BWX" S.T. 1.5 M/BW ROD CONN) ***See Photo on Page 42.***	{5'}
200	CB	$331.50	BARREL, CORE ("BWX" D.T. 1.5 M/BW ROD CONN)	{5'}
210	CB	$344.50	BARREL, CORE ("BWM" D.T. 1.5 M/BW ROD CONN)	{5'}
230	CB	$216.00	BARREL, CORE ("NWX" S.T. 1.5 M/NW ROD CONN)	{5'}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
240	CB	$350.00	BARREL, CORE ("NWX" D.T. 1.5 M/"NW" ROD CONN)	{5'}
241	CB	$550.00	BARREL, CORE ("NWX" D.T. 3 M/"NW" ROD CONN)	{10'}
247	CB	$250.00	BARREL, CORE ("NWM" D.T. .6 M/"NW" ROD CONN)	{2'}
250	CB	$475.00	BARREL, CORE ("NWM" D.T. 1.5 M/"NW" ROD CONN)	{5'}
255	CB	$865.00	BARREL, CORE (NXD4 1.5 M CHRISTENSEN/"NW" ROD CONN)	{5'}
257	CB	$928.55	** BARREL, CORE ("NQ" 50 MM WIRELINE LONGYEAR D.T. 5)	{2",5'}
258	CB	$1000.80	** BARREL, CORE ("NQ" 50 MM WIRELINE 3 M)	{2",10'}
260	CB	$350.00	BARREL, CORE ("HWX" S.T. 1.5 M/NW ROD CONN)	{5'}
261	CB	$669.00	4/3/4" ST BARREL 10596 NWCONN.	
270	SA	$95.00	BARREL, MAIN (25.4 MM R.P.S.)	{1"}
290	CB	$25.00	BEARING, "AWX"/"AWM" CORE BARREL (SET)	
295	HT	$25.00	BEARING, SIDE FEED WATER SWIVELID1, 96OD3.149THICK.628	
300	CB	$30.00	BEARING, "NWX"/"NWM" CORE BARREL (SET)	
301	CB	$35.00	BEARING AW-34 CB (UPPER)	
302	CB	$35.00	BEARING AW-34CB LOWER	
303	CB	$50.00	BEARING NWD-4CB	
319	DT	$115.00	E-Z MUD 5 GAL.	
320	DT	$9.00	BENTONITE (QUICK-GEL-VOLCLAY-PWD/ GRAN) 23 KG. BAG	{50 LB}
321	DT	$12.00	BENTONITE-BENSEAL (50# BAG)	{50 LB}
322	DT	$11.00	2 LBS. BAGS OF QUIK-TROL	
323	DT	$22.00	BAROID WT. MAT. 100 LB. BG.	
324	DT	$30.00	BENTONITE PELLETS 5 GAL. PAIL	
330	HT	$47.25	BINDER (9.5 MM CHAIN)	{⅜"}
380	BT	$80.00	BIT, CHOPPING ("AW" CONN.-54 MM WIDTH)	{2⅛"}
384	BT	$90.00	BIT, CROSS CHOPPING ("AW"CONN.-44.5 MM WIDTH)	{1¾"}
390	BT	$185.00	BIT, CHOPPING ("NW" CONN.-82.6 MM WIDTH)	{3¼"}
400	BT	$85.00	BIT, DRAG 57 MM (QUARRY BIT) ***See Photo on Page 36.***	{2¼"}
410	BT	$97.00	BIT, DRAG 88.9 MM (QUARRY BIT) ***See Photo on Page 36.***	{3½"}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
503	BT	$200.00	BIT, CARBIDE ROL. BUTTON 2-15/16	
504	BT	$100.00	BIT, ROLLER 50 MM BICONE ("AW" CONN) (2") ***See Photo on Page 36.***	{2"}
505	BT	$135.00	BIT, ROLLER 75 MM ***See Photo on Page 36.***	{2-15/16"}
510	BT	$190.00	BIT, ROLLER 83 MM ("NW" CONN.)	{3¼"}
520	BT	$170.00	BIT, ROLLER 90 MM (60.3 MM API CONN.)	{3½", 2⅜"}
530	BT	$162.40	BIT, ROLLER 95 MM (60.3 MM API CONN.) ***See Photo on Page 36.***	{3¾", 2⅜"}
540	BT	$205.00	**BIT, ROLLER 114 MM (60.3 MM API CONN.)	{4½", 2⅜"}
550	BT	$231.00	**BIT, ROLLER 143 MM (88.9 MM API CONN.)	{5⅝", 3½"}
575	AU	$4.90	BLADES (CUTTER FOR CME) ***See Photo on Page 29.***	
580	AU	$10.00	BLADES (CUTTER FOR MOBILE-EA.)	
590	HT	$.65	BLADES, HACKSAW 305 MM (18,24,32 TEETH PER-25 MM)	{12"}
595	AU	$70.00	CENTER HEAD ASSEMBLY FOR PILOT	{2¼"}
596	AU	$30.00	CENTER HEAD ASSEMBLY FOR PILOT	(4¼"}
620	HT	$35.00	BLOCK, ROPE (SNATCH 150 MM)	{6"}
622	HT	$136.98	BLOCK, ROPE (SNATCH 200 MM)	{8"}
626	AU	$3.50	BOLT DRIVE CAP W/NUT (21011)	
627	AU	$5.00	BOLTS, W/NUT, ROD TO CAP 4-1/4 AUG	{4¼"}
628	AU	$2.90	BOLTS (FOR CME AUGERS) ***See Photo on Page 29.***	
629	AU	$5.75	BOLTS (FOR CME HD AUGERS)	
630	AU	$2.00	BOLTS (FOR MOBILE CUTTER BLADES-EA.)	
640	DT	$15.00	BOLTS, EYE (ACKER HAMMER 136.2 KG)	{300 LB}
650	DT	$15.00	BOLTS, EYE (S&H HAMMER 136.2 KG)	{300 LB}
660	PI	$18.57	*** BOOTS (HIP) SIZE 6	
661	PI	$18.57	*** BOOTS (HIP) SIZE 7	
662	PI	$18.57	*** BOOTS (HIP) SIZE 8	
663	PI	$18.57	*** BOOTS (HIP) SIZE 9	
664	PI	$18.57	*** BOOTS (HIP) SIZE 10	
665	PI	$18.57	*** BOOTS (HIP) SIZE 11	
666	PI	$18.57	*** BOOTS (HIP) SIZE 12	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
667	PI	$18.57	*** BOOTS (HIP) SIZE 13	
668	PI	$18.57	*** BOOTS (HIP) SIZE 14	
670	PI	$9.04	*** BOOTS (KNEE HIGH) SIZE 6	
671	PI	$9.25	*** BOOTS (KNEE HIGH) SIZE 7	
672	PI	$9.25	*** BOOTS (KNEE HIGH) SIZE 8	
673	PI	$9.25	*** BOOTS (KNEE HIGH) SIZE 9	
674	PI	$9.25	*** BOOTS (KNEE HIGH) SIZE 10	
675	PI	$9.25	*** BOOTS (KNEE HIGH) SIZE 11	
676	PI	$9.25	*** BOOTS (KNEE HIGH) SIZE 12	
677	PI	$9.25	*** BOOTS (KNEE HIGH) SIZE 13	
678	PI	$9.25	*** BOOTS (KNEE HIGH) SIZE 14	
679	PI	$20.00	COVERALLS, ORANGE, VAR. SIZES	
680	DT	$130.00	BOULDER BUSTER (57 MM)	{2¼"}
681	AU	$5.00	BULLITS, FOR USE WITH BULLIT TYPE CUTTER HEAD. ***See Photo on Page 29.***	
690	DT	$156.25	BOULDER BUSTER (88.9 MM)	{3½"}
720	HT	$38.19	BOX (TOOL 0.6 M)	{24"}
730	HT	$2.04	BRUSHES (WIRE)	
750	HT	$30.00	CABLES, JUMPER	
751	HT	$40.00	CABLES, JUMPER 16' LENGTH	{16'}
760	HT	$15.38	CANS (GAS-20 L JUST RITE SAFETY)	{5 GALLON}
765	HT	$3.19	CANS, OIL (PUSH BOTTOM OILERS 0.5 L)	{1 PT}
774	CP	$5.00	PVC END CAPS, SIZE 2 "#46349	{2"}
775	AU	$137.00	CAPS, DRIVE (CME) 57 MM AUGER ***See Photo on Page 29.***	{2¼"}
777	AU	$222.00	CAPS, DRIVE (CME) 108 MM AUGER ***See Photo on Page 29.***	(4¼")
778	AU	$233.00	CAPS, DRIVE (CME) 4 1/4" HD	
779	CP	$5.00	2" GALV. CAP #47836	{2"}
780	SA	$1.00	CAPS (150 MM) BRASS	{3"}
781	CP	$5.00	1-1/2" GALV. CAP #47835	{1½}
782	CP	$5.00	1-1/4" GALV. CAP #47834	{1¼}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
790	SA	$.30	CAPS (88.9 MM LINER)	{3½"}
795	CP	$3.00	CAPS (SI 84.4 MM)	{3.34"}
800	SA	$.30	CAP, PVC (150 MM PRESS TYPE)	{3"}
801	CP	$1.00	CAP, PVC (25.4 MM PIPE THREAD)	{1"}
809	CP	$10.78	6" PVC PRES CAP SCH 40	
830	CB	$31.00	CASE, LIFTER ("AWM")	
835	CB	$21.00	CASE, LIFTER (AW-34) ***See Photo on Page 41.***	
840	CB	$31.00	CASE, LIFTER ("BWM")	
850	CB	$20.00	CASE, LIFTER ("NWM")	
855	CB	$25.00	CASE, LIFTER (NXD-4) ***See Photo on Page 41.***	
860	SA	$25.00	CASING (25.4 MM R.P.S. 1 M EACH)	{1", 3'}
865	CP	$42.30	CASING, "AW" (1.5 M LENGTH)	{5'}
870	CP	$31.00	CASING, "BW" (0.3 M LENGTH)	{1'}
880	CP	$42.00	CASING, "BW" (0.6 M LENGTH) ***See Photo on Page 48.***	{2'}
890	CP	$60.00	CASING, "BW" (1.5 M LENGTH)	{5'}
912	CP	$40.00	CASING, "NW" (0.3 M LENGTH)	{1'}
915	CP	$48.00	CASING, "NW" (0.6 M LENGTH)	{2'}
917	CP	$70.00	CASING, "NW" (1.5 M LENGTH) ***See Photo on Page 48.***	{5'}
940	CP	$39.00	CASING, "HW" (0.3 M LENGTH)	{1'}
950	CP	$68.00	CASING, "HW" (0.6 M LENGTH) ***See Photo on Page 48.***	{2'}
960	CP	$90.00	CASING, "HW" (1.5 M LENGTH-EA.)	{5'}
962	CP	$75.00	** CASING, "PW" (0.6 M LENGTH)	{2'}
963	CP	$123.50	** CASING, "PW" (1.5 M LENGTH)	{5'}
970	HT	$10.00	CHAIN (0.6 M CHAIN WRENCH)	{24"}
980	HT	$28.44	CHAIN, LOGGING (9.5 MM- 5 M LONG W/HOOKS)	{⅜", 16'}
990	HT	$100.00	CHAIN, TIE DOWN (DOZER ONLY)	
1001	HT	$1.63	CHISEL (6 MM)	{¼"}
1002	HT	$2.36	CHISEL (9 MM)	{5/16"}
1003	HT	$5.00	CHISEL (13 MM)	{½"}
1004	HT	$5.56	CHISEL (16 MM)	{⅝"}
1005	HT	$9.04	CHISEL (19 MM)	{¾"}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
1006	HT	$7.00	CHISEL (13 MM EXTRA LONG)	{½"}
1007	HT	$5.00	CHISEL (19 MM EXTRA LONG)	{¾"}
1008	HT	$3.50	CHISEL (22 MM)	{⅞"}
1009	HT	$5.00	CHISEL (25.4 MM)	{1"}
1010	HO	$3.00	CLAMPS (25.4 MM DISCHARGE HOSE BOLTED) ***See Photo on Page 62.***	{1"}
1020	HO	$.49	CLAMPS (25.4 MM PLASTIC HOSE)	{1"}
1021	HO	$1.00	SAFETY CLIPS AIR HOSE SNAP 3LX83	{1"}
1030	HT	$2.50	CLEANER (HAND 0.45 KG CANS-CREAM)	{1 LB}
1060	HO	$3.00	CONNECTION (19 MM THREADED MALE SNAP ON)	{¾"}
1080	HO	$3.00	CONNECTION (25.4 MM THREADED MALE SNAP ON) ***See Photo on Page 62.***	{1"}
1090	HO	$3.00	CONNECTION (25.4 MM THREADED FEMALE SNAP ON) ***See Photo on Page 62.***	{1"}
1120	HO	$2.65	CONNECTION (SNAP ON 25.4 MM HOSE) ***See Photo on Page 62.***	{1"}
1123	HO	$3.82	CONNECTION, QUICK (32 MM FEMALE THREAD) "ADAPTOR A"	{1¼"}
1124	HO	$8.36	CONNECTION, QUICK (32 MM FEMALE THREAD) "COUPLER D"	{1¼"}
1127	HO	$8.38	CONNECTION, QUICK (38.1 MM STAB) "COUPLER C"	{1½"}
1128	HO	$8.38	CONNECTION, QUICK (38.1 MM FEMALE THREAD) "COUPLER D" ***See Photo on Page 63.***	{1½"}
1129	HO	$4.88	CONNECTION, QUICK (38.1 MM MALE THREAD) "ADAPTER F"	{1½"}
1131	HO	$3.60	CONNECTION, QUICK (38.1 MM FEMALE THREAD) "ADAPTER A"	{1½"}
1133	HO	$5.72	CONNECTION, QUICK (50.8 MM MALE THREAD) "ADAPTER F"	{ 2" }
1134	HO	$4.38	CONNECTION, QUICK (50.8 MM FEMALE THREAD) "ADAPTER A" ***See Photo on Page 63.***	{2"}
1135	HO	$9.04	CONNECTION, QUICK (50.8 MM FEMALE THREAD) "COUPLER D"	{2"}
1150	SA	$40.00	CONNECTOR, SPECIAL (SAMPLER ADAPTER)	
1159	RD	$80.00	CAP DRIVE HEX PIONJAR HARDENED	{1"}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
1160	RD	$16.00	COUPLINGS ("AW" ROD)	
1165	RD	$24.30	COUPLING ("BW" ROD)	
1170	RD	$30.20	COUPLINGS ("NW" ROD)	
1171	RD	$85.00	RHINO PROBE DRIVE COUPLING	
1180	CP	$1.00	* COUPLINGS (25.4 MM PVC)	{1"}
1190	CP	$2.50	* COUPLINGS (76.2 PVC)	{3"}
1195	CP	$5.00	COUPLINGS (SI 84.8 MM)	{3.34"}
1200	CP	$.55	COUPLINGS (12.7 MM PIPE)	{½"}
1201	CP	$5.48	COUPLING, REDUCER (2"X1½")	
1202	CP	$3.11	COUPLING, REDUCER (1¼X1")	
1210	CP	$.99	COUPLING (19.1 MM PIPE)	{¾"}
1211	CP	$4.00	COUPLING, REDUCER (1½X1¼)	
1212	CP	$6.00	2" GALV. COUPLER #47833	{2"}
1213	CP	$5.00	1-1/2" GALV. COUPLER #47790	(1½"}
1220	CP	$.79	COUPLING (25.4 MM PIPE)	{1"}
1230	CP	$21.00	COUPLING (63.5 MM PIPE)	{2½"}
1240	CP	$36.00	COUPLINGS (101.6 MM PIPE)	{4"}
1250	CP	$15.00	COUPLINGS (152 MM PIPE)	{6"}
1251	CP	$3.00	PVC COUPLINGS, SIZE 2" #42642	{2"}
1275	RD	$35.00	COUPLING 18 MM THREAD 1"	{1"}
1285	SA	$6.75	CUPS, 88.9 MM LEATHER PISTON SAMPLE	{3½"}
1286	DT	$100.00	CABLE CUTTER MODIA 1/1/16" C22AP.2	
1290	HT	$14.57	* DIGGER (POST HOLE-LONG HANDLES)	
1300	HO	$15.00	DISCONNECT (QUICK HYD. PARKER-HANNIFIN)	
1301	CP	$5.00	2" GALV. ST. EL.90 DEG. #41473	{2"}
1302	CP	$5.00	1-1/2" GALV. ST. EL. 90DEG. #41472	{1½"}
1303	CP	$5.00	1-1/4" GALV. ST. EL. 9I0 DEG. #41471	{1¼"}
1310	HT	$4.00	FILE, 200 MM (3 CORNERED)	{8"}
1312	HT	$6.00	FILE, 200 MM (3 CORNERED-SMOOTH)	{8"}
1318	HT	$3.98	FILE, 200 MM (SQUARE-SMOOTH)	{8"}
1320	HT	$10.00	FILE, 300 MM (FLAT BASTARD)	{12"}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
1344	HT	$10.00	FILE (HALF ROUND 300 MM BASTARD)	{12"}
1350	HT	$8.00	FILE, 300 MM (ROUND BASTARD)	{12"}
1370	DT	$1.41	FLAGGING (RED ROLLS)	
1380	DT	$1.41	* FLAGGING (YELLOW ROLLS)	
1383	AU	$190.00	FLIGHTS (57 MM HOL. 0.6 M LENGTHS) ***See Photo on Page 30.***	{2¼", 2'}
1384	AU	$242.00	FLIGHTS (57 MM X 159 MM HOL. 1.5 M LENGTHS) ***See Photo on Page 30.***	{2¼", 6¼", 5}
1386	AU	$357.00	FLIGHTS ***See Photo on Page 30.***	{4¼",8",5'}
1389	AU	$200.00	FLIGHTS (86 MM X 210 MM HOL. 0.6 M LENGTHS)	{3⅜", 8¼", 2'}
1390	AU	$325.00	FLIGHTS (86 MM HOL. 1.5 M LENGTHS-MOBILE)	{3⅜", 5'}
1400	AU	$175.00	FLIGHTS (100 MM SOL.,1.5 M LENGTHS-MOBILE)	{4", 5'}
1413	AU	$175.00	FORK, AUGER ***See Photo on Page 31.***	{4¼"}
1414	AU	$45.00	FORK, AUGER 57 MM HSA ***See Photo on Page 31.***	{2¼"}
1415	AU	$6.00	FUNNEL (JUST-RITE, POUR)-GREY OR YELLOW	
1416	DT	$30.00	**SAND CONTENT KIT (MUD DRILLING) ***See Photo on Page 93.***	
1417	DT	$300.00	**MUD DESANDER (MUD DRILLING) ***See Photo on Page 93.***	
1418	DT	$20.00	**MARSH CUP AND FUNNEL (MUD DRILLING) ***See Photo on Page 93.***	
1419	HT	$14.79	FUNNEL (9.5 L CAPACITY)	{10 QT}
1421	DT	$35.00	**MUD BALAMCE POCKET SIZE (MUD DRILLING) ***See Photo on Page 93.***	
1430	DT	$38.50	GAUGE (MINERAL FILLED)	
1450	HO	$1.00	GASKETS (SUCTION HOSE 38 MM NEOPRENE)	{1½"}
1451	HO	$1.00	GASKETS (QUICK CONNECT 38.1 MM NEOPRENE)	{1½"}
1452	HO	$1.00	GASKETS (QUICK CONNECT 50.8 MM NEOPRENE)	{2"}
1453	HO	$1.00	GASKETS (SUCTION 50 MM NEOPRENE)	{2"}
1455	PI	$3.00	*** GLASSES (SAFETY)	
1456	PI	$4.00	GLOVES, LEATHER	
1458	PI	$4.00	GLOVES, INSULATED	
1459	PI	$2.00	GLOVES, RUBBER	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
1460	CP	$1.99	* GLUE (PVC-.5 L OR .25 L)	{PT OR ½ PT}
1470	HT	$5.56	GREASE (CARTRIDGE)	
1480	HO	$1.00	GROMMETS (25 MM AIR HOSE FITTINGS) ***See Photo on Page 62.***	{1"}
1490	HT	$30.49	GUN, GREASE (LEVER HANDLE)	
1500	HT	$10.00	HACKSAW (FRAME)	
1510	SA	$59.00	* HAMMER (25 MM R.P.S.)	{1"}
1511	HT	$150.00	ANVIL, IMPACT NW ROD PIN FOR CME AUTO HAMMERS. ***See Photo on Page 91.***	NW
1512	HT	$150.00	ANVIL, IMPACT AW ROD PIN FOR CME AUTO HAMMERS ***See Photo on Page 91.***	AW
1524	HT	$6.99	HAMMER, RUBBER	
1530	HT	$7.49	HAMMER (DRILLER-1.4 KG)	{3 LB}
1532	AU	$29.20	HAMMER, POINTED (FOR C.M.E.) ***See Photo on Page 32.***	
1550	HT	$8.00	HAMMER, BALL PEIN (0.2 KG)	{16 OZ}
1570	HT	$8.04	HAMMER, SLEDGE (3.6 KG)	{8 LB}
1575	DT	$275.00	HAMMER (64 KG)	{140 LB}
1580	DT	$450.00	HAMMER (136.2 KG)	{300 LB}
1590	HT	$5.00	HANDLE, AXE SINGLE BIT	
1600	HT	$5.00	HANDLE, PICK	
1610	HT	$5.00	HANDLE, SLEDGE HAMMER	
1620	HT	$2.00	HASP (100 MM)	{4"}
1630	AU	$250.00	HEAD, ADAPTOR (MOBILE FLIGHTS)	
1631	AU	$180.00	CUTTER HEAD BULLIT TYPE ***See Photo on Page 31.***	{2¼"}
1635	AU	$203.00	HEAD, CUTTER (57.2 MM CME) ***See Photo on Page 31.***	{2¼"}
1637	AU	$230.00	HEAD, CUTTER (108 MM CME) ***See Photo on Page 31.***	{4¼"}
1638	AU	$355.00	HEAD, CUTTER (CME) HD 4 1/4"	
1640	SA	$112.60	HEAD, DRIVE (63.5 MM X 63.5 MM "AW" ROD)	{2½", 2½"}
1644	SA	$45.00	HEAD, SAMPLER (51 MM SPLIT BARREL)	{2"}
1650	CP	$210.00	HEAD, DRIVE (100 MM PIPE)	{4"}
1655	CP	$105.00	HEAD, DRIVE (100 MM PIPE W/NW ROD BOX)	{4"}
1660	CP	$110.00	HEAD, DRIVE ("BW")	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
1670	CP	$120.00	HEAD, DRIVE ("HW")	
1675	CP	$115.00	HEAD, DRIVE ("NW")	
1677	CP	$210.00	** HEAD, DRIVE (PW CASING)	
1680	SA	$110.00	HEAD, SHELBY (88.9 MM)	{3½"}
1690	AU	$421.00	HEAD CUTTER, MOBILE FLIGHT (BLADE TYPE (158.8 MM X 57.1 MM)	{3⅜", 8¼"}
1700	HT	$89.90	HEATER (SPACE-SALAMANDER)	
1701	HT	$15.00	CORD EXTENSION 50' LENGTH	50'
1702	HT	$189.00	HEATER (OIL-FIRED)	
1715	PI	$9.07	*** HELMET (SAFETY-PLASTIC)	
1720	HT	$.40	HITCHPIN, HAIRPIN (3 MM X 65 MM)	{⅛" X 2-9/16"}
1730	HT	$.82	HITCHPIN, HAIRPIN (5 MM X 83 MM)	{3/16" X 3¼"}
1734	DT	$5.67	HOLDER, CRAYON	
1735	AU	$35.00	HOOK, HOISTING (CME AUGER) ***See Photo on Page 32.***	
1740	DT	$65.00	HOOK, ROD ("AW") ***See Photo on Page 57.***	
1750	DT	$75.00	HOOK, ROD ("NW")	
1755	DT	$22.00	HOOK, SAFETY	
1760	HO	$.58	HOSE (25.4 MM BRAIDED AIR-L.M.)	{1"}
1765	HO	$75.50	HOSE (32 MM AIR C.M.E.) 3 M LENGTH	{1¼", 10'}
1770	HO	$65.00	HOSE (38 MM SUCTION 6 M LENGTHS) PLASTIC	{1½", 20'}
1772	HO	$59.00	HOSE (38 MM SUCTION 6 M LENGTHS)- RUBBER	{1½", 20'}
1775	HO	$45.00	HOSE, 50 MM SUCTION (MOYNO PUMP)	{2"}
1780	HT	$20.00	HOSE (2.4 M FOR PROPANE TANKS)	{8'}
1785	AU	$2.25	INSERT, THREADED (CME-AUGER)	
1790	SA	$89.00	JACK (25.4 MM R.P.S.)	{1"}
1810	HT	$8.25	JAWS (HEEL 350 MM W/PINS)	{14"}
1820	HT	$18.16	JAWS (HOOK 350 MM)	{14"}
1830	HT	$8.25	JAWS (HEEL 450 MM W/PINS)	{18"}
1840	HT	$18.16	JAWS (HOOK 450 MM)	{18"}
1850	HT	$8.25	JAWS (HEEL 600 MM W/PINS)	{24"}
1860	HT	$18.16	JAWS (HOOK 600 MM)	{24"}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
1870	HT	$15.00	JAWS (HEEL 915 MM W/PINS)	{36"}
1880	HT	$8.35	JAWS (HOOK 915 MM)	{36"}
1881	HT	$10.00	JAWS, FOR RIGID PIPE VISE (3 MM - 100 MM)	{⅛", 4"}
1883	CP	$63.00	JAWS, 76 MM (PIPE RETRIEVER)	{3"}
1884	CP	$25.00	JAWS, 63.5 MM (PIPE RETRIEVER)	{2½"}
1885	CP	$25.00	JAWS, 100 MM (PIPE RETRIEVER)	{4"}
1890	DT	$22.80	JUGS, WATER (7.6 L)	{2 GAL}
1900	DT	$8.40	KEIL (BOX)	
1901	DT	$10.00	COUPLED KEYS 2-1/4 AU 21067	{2¼"}
1910	DT	$3.19	LATCH KIT (SAFETY HOOK) 3 TON, LARGE HOOK	
1912	DT	$3.19	LATCH KIT (SAFETY HOOK) 3 TON, SMALL HOOK	
1920	DT	$3.20	LEVEL (CARPENTER'S 600 MM)	{24"}
1930	CB	$12.30	LIFTER, CORE ("AX") ***See Photo on Page 41.***	
1931	CB	$15.00	LIFTER, CORE AW34 ***See Photo on Page 41.***	
1940	CB	$16.00	LIFTER, CORE ("BX") ***See Photo on Page 41.***	
1950	CB	$129.00	LIFTER, CORE ("HX") ***See Photo on Page 41.***	
1960	CB	$19.00	LIFTER, CORE ("NX") ***See Photo on Page 41.***	
1985	CB	$23.00	LIFTER, CORE (NWD-4, CHRISTENSEN)	
1991	CB	$158.00	LIFTER CORE 4/3/4" L-10603	
2000	DT	$70.00	LIFTER, ROD AW (CLOSED) ***See Photo on Page 57.***	
2010	DT	$56.00	LIFTER, ROD "AW" (OPEN) ***See Photo on Page 57.***	
2020	DT	$113.00	LIFTER, ROD "NW" (CLOSED) ***See Photo on Page 57.***	
2030	DT	$110.00	LIFTER, ROD "NW" (OPEN)	
2038	PI	$44.00	JACKET, ORANGE DOT (MEDIUM)	MED.
2039	PI	$5.00	EARPLUG W/CORD	
2040	PI	$3.00	*** LINERS (SAFETY HELMET)	
2041	PI	$44.00	JACKET, ORANGE DOT (LARGE)	LG
2042	PI	$44.00	JACKET, ORANGE DOT (X-LARGE)	X LG
2043	PI	$54.00	JACKET, ORANGE DOT (XX-LARGE)	XX LG
2044	PI	$54.00	JACKET, ORANGE DOT(XXX-LARGE)	XXX LG
2045	PI	$8.00	T-SHIRT SIZE (MEDIUM) ORANGE	MED.

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
2046	PI	$8.00	T-SHIRT (LARGE) ORANGE	LG
2047	PI	$8.00	T-SHIRT (X-LARGE) ORANGE	X LG
2048	PI	$8.00	T-SHIRT (XX-LARGE) ORANGE	XX LG
2049	PI	$8.00	T-SHIRT(XXX-LARGE) ORANGE	XXX LG
2050	SA	$15.00	LINERS (SS-76 MM WITH CAPS)	{3"}
2060	HT	$3.00	LOCKS (PADLOCK KEYED ALIKE)	
2065	HT	$10.00	LOCKS, OAR (PR)	
2070	DT	$45.00	LUBRICANT (6.8 KG PAIL)	{15 LB}
2071	CP	$2.57	NIPPLES, 4" LENGTH (2")	
2072	CP	$1.93	NIPPLES, 4" LENGTH (1½")	
2073	CP	$1.93	NIPPLES, 4" LENGTH (1¼")	
2074	CP	$.75	NIPPLES, 4" LENGTH (½")	
2075	PI	$15.49	*** MUFFS, HUSH	
2076	CP	$1.75	NIPPLES, CLOSE (2")	
2077	CP	$1.21	NIPPLES, CLOSE (1½")	
2078	CP	$5.00	NIPPLE (3/4"X2½" LENGTH	{3/4"x 2½"}
2080	CP	$1.00	NIPPLES, CLOSE (31.8 MM)	{1¼"}
2081	CP	$.46	NIPPLES, CLOSE (½")	
2082	CP	$16.50	NOSE, PIPE RETRIEVER	
2083	HT	$4.50	NUT, 300 MM PIPE WRENCH	{12"}
2084	HT	$3.00	NUT, 450 MM PIPE WRENCH	{18"}
2085	HT	$31.50	NUT, 600 MM PIPE WRENCH	{24"}
2086	CP	$5.00	NIPPLE 1¼"X2" LENGTH	{1¼" X2"}
2087	CP	$5.00	NIPPLE 1½"X2" LENGTH	{1½" X2"}
2088	CP	$5.00	NIPPLE 2" CLOSE	{2"}
2089	CP	$5.00	NIPPLE 1"X2" LENGTH	{1"X2"}
2090	HT	$17.84	OARS (2 M PAIR)	{6½'}
2095	DT	$10.00	PACKING-SIDEFEED SWIVEL LIGHT DUTY	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
2103	AU	$125.00	PILOT ASSY. 2.25 AW (21018) ***See Photo on Page 30.***	
2104	AU	$257.00	PILOT ASSEMBLY ***See Photo on Page 30.***	{4¼"}
2105	HT	$8.89	PICK	
2110	HT	$10.00	PIN (DRIFT 300 MM LONG)	{12"}
2115	AU	$2.90	PIN, DRIVE (CME AUGER) ***See Photo on Page 32.***	
2116	AU	$4.00	CENTER HEAD PIN FOR PILOT ASSEMBLY ***See Photo on Page 30.***	{2¼"}
2117	AU	$4.00	CENTER HEAD PIN FOR PILOT ASSEMBLY.	{4¼"}
2120	CP	$3.53	PIPE (13 MM, 1 M LONG)	{½", 3'}
2130	CP	$4.28	PIPE (19 MM AUGER-L.M.)	{¾"}
2140	CP	$2.10	PIPE (25.4 MM PVC 3 M LENGTHS-L.M.)	{1", 10'}
2150	CP	$.78	PIPE (PVC 76.2 M L.M.)	{3"}
2155	CP	$50.00	PIPE, SLOPE INDICATOR 76.2 MM- 3 M LONG	{3", 10'}
2156	CP	$15.00	PIPE, SLOPE INDICATOR 76.2 MM- 1.5 M LONG	{3", 5'}
2157	CP	$10.00	PIPE, PVC 2"X10' LENGTH	2"
2158	CP	$5.00	PIPE, ELBOW 90 DEGREE 2"	2"
2160	CP	$64.25	PIPE, 63.5 MM (1.5 M LENGTHS)	{2½", 5'}
2161	CP	$5.00	PIPE, BUSHING 1½"X2"	{2"X 1½"}
2162	CP	$5.00	PIPE, BUSHING 1½"X1¼"	{1½"X 1¼"}
2163	CP	$5.00	1-1/2"X1" BUSHING #47812	{1½" x1"}
2164	CP	$5.00	3/4"X1/2" BUSHING #47809	{3/4"X 1/2"}
2170	CP	$111.00	PIPE, 100 MM (1.5 M LENGTHS)	{4", 5'}
2180	CP	$88.00	** PIPE, 150 MM (0.6 M LENGTHS)	{6", 2'}
2190	CP	$129.00	** PIPE, 150 MM (1.5 M LENGTHS)	{6",5'}
2191	CP	$5.00	2" GALV. PIPE 2' LONG	{2"X2"}
2192	CP	$6.00	2" GALV. PUNION #41520	{2"}
2200	HT	$6.63	PLIERS (NEEDLE NOSE)	
2210	HT	$8.00	PLIERS (SIDE CUTTER)	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
2222	HT	$8.00	PLIERS (SLIP JOINT 200 MM)	{8"}
2240	HT	$6.25	PLIERS (VISE GRIP 250 MM)	{10"}
2250	HT	$10.00	PLIERS (WATER PUMP 250 MM)	{10"}
2260	CP	$1.00	* PLUGS (25.4 MM PVC THREADED)	{1"}
2261	CP	$5.00	2" GALV. PLUG #47839	{2"}
2262	CP	$6.00	1-1/2" GALV. PLUG #47838	{1½"}
2264	CP	$5.00	1-1/4" GALV. PLUG #47837	{1¼"}
2265	CP	$2.50	PLUGS 100 MM BRASS PIPE	{4"}
2266	CP	$4.00	1" GALV. PLUG #47805	{1"}
2270	DT	$115.00	PLUG HOIST ("AW" CONN.)	
2280	DT	$20.00	* POINTS (POIN JAR 25.4 MM DIA. X 1 M LONG)	{1",3'}
2299	DT	$250.00	BLUE ANGEL WATER PUMP	
2300	HT	$4.50	PUNCH, CENTER	
2310	HT	$4.84	PUNCH, DRIFT PIN P-3	
2312	HT	$3.89	PUNCH, DRIFT PIN 9.5 MM X 4.8 MM	{⅜", 3/16"}
2315	HT	$4.65	PUNCH, DRIFT PIN 11.1 MM X 5.6 MM	{7/16" X 7/32"}
2320	HT	$3.75	PUNCH, DRIFT PIN P-5	
2321	CP	$8.00	2"X1-1/2" RED. COUP. #41497	{2"x1½"}
2322	CP	$8.00	2"X1-1/4" RED. COUP. #41496	{2"x1¼"}
2323	CP	$8.00	1-1/2"X1" RED COUP. #41495	{1½"x1"}
2324	CP	$8.00	2"X1" RED. COUP. #44231	{2"x1"}
2340	SA	$25.00	RETAINER, FLAP (44.5 MM)	{1¾"}
2351	SA	$1.00	RETAINER, PLASTIC (50.8 MM)	{2"}
2353	AU	$7.00	RETAINER, PLASTIC CME CUTTER HEAD (57.0 MM)	{2¼"}
2371	SA	$7.70	RETAINER, PLASTIC (88.9 MM)	{3½"}
2390	CP	$150.00	RETREAVER, PIPE ("AW" CONN.)	
2395	AU	$425.00	** RETREAVER, 57 MM AUGER	{2¼"}
2400	DT	$1.00	RING, "O" (N&N SWIVEL)	
2401	SA	$1.00	RING, "O" (HYD. SAMPLER)	
2403	AU	$1.00	RING, "O" 2-¼" CME AUGER	
2410	DT	$38.00	RING, DRIVE (63.5 MM JAR BAR)	{2½"}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
2415	DT	$25.00	RING, DRIVE 63.5 MM MODIFIED JAR BAR	{2½"}
2420	DT	$48.00	RING, ROD ("AW")	
2430	DT	$69.00	RING, ROD ("NW") ***See Photo on Page 57.***	
2435	DB	$9.00	RING, EXPANDING FOR THIN WALL ADAPTOR	{4¼"}
2437	DB	$12.00	RING EXPANDING FOR THIN WALL ADAPTOR	{6¼"}
2480	RD	$50.00	* ROD, "25.4 MM" R.P.S. (1 M EACH)	{1", 3'}
2490	RD	$42.00	ROD, "AW" (0.3 M LENGTH EACH)	{1'}
2500	RD	$37.00	ROD, "AW" (0.6 M LENGTH EACH) ***See Photo on Page 79.***	{2'}
2510	RD	$51.00	ROD, "AW" (1.5 M LENGTH EACH)	{5'}
2520	RD	$89.00	ROD, "AW" (3.0 M LENGTH EACH)	{10'}
2521	RD	$100.00	TAP **&** Die AW RODS **See photo On Page 92.**	AW
2525	RD	$118.00	ROD, "BW" (1.5 M LENGTH EACH) ***See Photo on Page 79.***	{5'}
2529	RD	$50.00	ROD, "NW" 1 FOOT LENGTH ***See Photo on Page 79.***	{1"}
2530	RD	$72.00	ROD, "NW" (0.6 M LENGTH EACH)	{2'}
2540	RD	$110.00	ROD, "NW" (1.5 M LENGTH EACH)	{5'}
2550	RD	$190.00	ROD, "NW" (3.0 M LENGTH EACH)	{10'}
2551	RD	$130.00	TAP & DIE NW RODS ***See Photo on Page 92.***	NW
2560	RD	$43.00	* ROD, PION JAR (25.4 MM DIA. X 1 M LONG)	{1" X 3'}
2565	AU	$43.00	ROD TO CAP 2.25 AW (21013) ***See Photo on Page 33.***	
2566	AU	$60.00	ROD TO CAP 4¼" AW CONN. ***See Photo on Page 33.***	
2580	RP	$45.00	* ROPE, MANILA (6 MM BALE)	{¼"}
2590	RP	$56.95	* ROPE, MANILA (13 MM BALE)	{½"}
2600	RP	$117.15	* ROPE, MANILA (19 MM BALE)	{¾"}
2605	RP	$210.00	ROPE, 19 MM NYLON BALE (FOR RAFT ANCHORS-L.M.)	{¾"}
2610	RP	$183.55	* ROPE, MANILA (25.4 MM BALE)	{1"}
2630	DT	$3.06	RULERS (2 M WOOD)	{6'}
2631	DT	$8.55	RULERS, METRIC (2 M)	
2660	SA	$144.00	SAMPLER (44.5 MM SOLID) ***See Photo on Page 85.***	{1¾"}
2670	SA	$125.00	SAMPLER (50.8 MM H.D. SPLIT-WITH PLUG)	{2"}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
2689	HT	$90.00	SAMPLER 2"X24" AW. CONN. ***See Photo on Page 85.***	{2"X24"}
2690	SA	$110.00	SAMPLER (50.8 MM LYNAC) ***See Photo on Page 85.***	{2"}
2720	SA	$150.00	SAMPLER (76.2 MM SPLIT)	{3"}
2730	SA	$236.00	SAMPLER (88.9 MM SPLIT FOR LINER) ***See Photo on Page 85.***	{3½"}
2740	SA	$350.00	SAMPLER (88.9 MM SOLID 1 M LONG)	{3½", 36"}
2750	SA	$165.00	* SAMPLER (STATIONARY PISTON 76.2 MM)	{3"}
2760	SA	$118.00	* SAMPLER (STATIONARY PISTON 88.9 MM)	{3½"}
2770	HT	$7.83	SAW (BOW 0.6 M)	{24"}
2780	HT	$15.00	SAW (CARPENTER)	
2790	SA	$1.30	SCREW (SHELBY HEAD)	
2802	HT	$5.00	SCREWDRIVER, 100 MM BLADE	{4"}
2804	HT	$5.00	SCREWDRIVER, 150 MM BLADE	{6"}
2805	HT	$3.00	SCREWDRIVER (CABINET TYPE)	
2806	HT	$10.00	SCREWDRIVER, 200 MM BLADE	{8"}
2812	HT	$3.00	SCREWDRIVER, PHILIPS 2 PT. 25 MM SHORT	{1"}
2814	HT	$1.36	SCREWDRIVER, PHILIPS 2 PT. 100 MM SHORT	{4"}
2820	DT	$20.00	* SHANK (PION JAR IMPACT)	
2830	HT	$25.13	SHEARS (LOPPING)	
2840	CB	$32.00	SHELL, REAMING ('AWX' BLANK ST)	
2850	CB	$43.00	SHELL, REAMING ('BWX' BLANK ST)	
2860	CB	$43.50	SHELL, REAMING ('NWX' BLANK ST)	
2870	CB	$63.00	SHELL, REAMING ('HX' BLANK ST)	
2875	CB	$124.00	SHELL, REAMING AW34 ***See Photo on Page 41.***	
2880	CB	$40.50	SHELL, REAMING ('AWX' BLANK DT)	
2890	CB	$49.00	SHELL, REAMING ('BWX' BLANK DT)	
2895	CB	$43.50	SHELL, REAMING (NWD-4,76.2 MM)	{3"}
2900	CB	$40.00	SHELL, REAMING ('NWX' BLANK DT)	
2910	CB	$43.00	SHELL, REAMING ('AWM' BLANK)	
2920	CB	$35.50	SHELL, REAMING ('BWM' BLANK)	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
2930	CB	$29.00	SHELL, REAMING ('NWM' BLANK)	
2932	CB	$129.00	SHELL, REAMING (NWD-4) ***See Photo on Page 41.***	
2935	CP	$45.55	** SHOE, DRIVE ("AW"CASING)	
2940	CP	$46.00	SHOE, DRIVE ("BW"CASING) ***See Photo on Page 49.***	
2955	CP	$58.00	SHOE, DRIVE ("NW"CASING)	
2960	CP	$79.00	SHOE, DRIVE ("HW"CASING)	
2963	CP	$115.00	** SHOE, DRIVE ("PW"CASING)	
3000	CP	$49.00	SHOE, PIPE (63.5 MM) ***See Photo on Page 49.***	{2½"}
3010	CP	$64.00	SHOE, PIPE (101.6 MM)	{4"}
3020	SA	$30.00	SHOE, SAMPLER (76.2 MM)	{3"}
3030	SA	$29.00	SHOE, SAMPLER (88.9 MM)	{3½"}
3040	HT	$10.00	SHOVEL, LONG HANDLE ROUND POINT	
3050	HT	$10.00	SHOVEL, LONG HANDLE SQUARE POINT	
3060	HT	$10.00	SHOVEL, SHORT HANDLE ROUND POINT	
3070	HT	$10.00	SHOVEL, SHORT HANDLE SQUARE POINT	
3071	AU	$94.00	SLIPS, ROD AW, 2¼" I.D. AUGER ***See Photo on Page 33.***	
3074	AU	$150.00	SLIPS, ROD AW, 4¼" I.D. AUGER ***See Photo on Page 33.***	
3075	HT	$2.60	SOCKET, ⅜", ½" DRIVE	
3076	HT	$2.60	SOCKET, 7/16", ½" DRIVE	
3077	HT	$2.60	SOCKET, ½", ½" DRIVE	
3078	HT	$2.60	SOCKET, 9/16", ½" DRIVE	
3079	HT	$2.60	SOCKET, ⅝", ½" DRIVE	
3080	HT	$2.95	SOCKET, ¾" SPARK PLUG ½" DRIVE	
3081	HT	$2.60	SOCKET, ¾', ½' DRIVE	
3090	HT	$8.00	SOCKET, ⅞" SPARK PLUG ½" DRIVE	
3100	HT	$8.00	SOCKET, 13/16" SPARK PLUG ½" DRIVE	
3102	HT	$5.05	SOCKET, 1" SPARK PLUG ½" DRIVE	
3104	HT	$5.85	SOCKET, 1-1/16" SPARK PLUG ½" DRIVE	
3106	HT	$5.85	SOCKET, 1⅛" SPARK PLUG ½" DRIVE	
3108	HT	$5.31	SOCKET, 1⅛' ¾' DRIVE	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
3109	HT	$15.00	SOCKET,1-1/4", 3/4" DRIVE	{1¼"}
3114	HT	$1.80	SPRINGS, 450 MM PIPE WRENCH (SETS)	{18"}
3115	HT	$1.90	SPRINGS, 600 MM PIPE WRENCH (SETS)	{4"}
3160	HT	$.50	* STAKES (25 MM X 25 MM X 1.2 M)	{1" X 1" X 48"}
3190	HT	$.20	STAKES, WIRE (600 M)	{2'}
3205	HT	$5.00	STRAP, SAFETY (GAS CAN)	
3210	SB	$46.00	SUB ("AW" ROD BOX TO 63.5 MM PIPE PIN)	{2½"}
3215	SB	$59.00	SUB ("AW" ROD BOX TO "A" ROD PIN)	
3220	SB	$65.00	SUB ("AW" ROD BOX TO "BW" CASING PIN)	
3225	SB	$40.00	SUB ("AW" ROD BOX TO "BX" CASING PIN	
3230	SB	$42.00	SUB ("AW" ROD BOX TO "BW" ROD PIN)	
3232	SB	$75.00	SUB ("AW" ROD BOX TO "BW" ROD BOX)	
3233	SB	$75.00	SUB ("AW" ROD BOX TO "NW" ROD BOX)	
3250	SB	$58.00	SUB ("AW" ROD BOX TO "NW" ROD PIN) ***See Photo on Page 90.***	
3260	SB	$25.00	SUB ("AW" ROD BOX TO "NX" CASING PIN)	
3265	SB	$70.00	SUB ("AW" ROD BOX TO "NW" CASING PIN)	
3290	SB	$45.00	SUB ("AW" ROD BOX TO 100 MM X 178 MM THREAD PIN)	{1¼" X 1¼"}
3291	SB	$45.00	SUB 1/14 TPI PIN-1-1/4 BOX 7 THRD ***See Photo on Page 90.***	{1¼" X 1¼"}
3302	SB	$75.00	SUB ("AW" ROD PIN TO "NW" ROD PIN)	
3310	SB	$90.00	SUB ("BW" CASING BOX TO "AW" ROD PIN)	
3314	SB	$65.00	SUB ("BW" CASING BOX TO "NW" CASING PIN)	
3315	SB	75.00	SUB ("BW" CASING BOX TO "NW" ROD PIN)	
3320	SB	$85.00	SUB ("BW" CASING PIN TO 63.5 MM PIPE PIN)	{2½"}
3325	SB	$54.00	SUB ("NW" CASING BOX TO "NX" CASING BOX)	
3327	SB	$56.59	SUB ("NW" CASING BOX TO "NX" CASING PIN)	
3330	SB	$54.00	SUB ("NW" ROD BOX TO "AW" ROD PIN) ***See Photo on Page 90.***	
3331	SB	$78.00	SUB ("NW" ROD BOX TO "BW" CASING PIN)	
3332	SB	$75.95	SUB ("AW" ROD BOX TO BW ROD BOX)	
3340	SB	$65.50	SUB ("NW" ROD BOX TO "N" ROD PIN)	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
3345	SB	$71.00	SUB ("NW" ROD BOX TO "NW" CASING PIN)	
3350	SB	$34.00	SUB ("NW" ROD BOX TO "NX" CASING PIN)	
3360	SB	$90.00	SUB ("NW" ROD BOX TO 63.5 MM PIPE PIN)	{2½"}
3370	SB	$89.00	SUB ("NW" ROD BOX TO "HW" CASING PIN)	
3380	SB	$105.00	SUB ("NW" ROD BOX 60.3 MM A.P.I.)	{2⅜"}
3390	SB	$160.00	SUB ("NW" ROD BOX TO 88.9 MM A.P.I.)	{3½"}
3400	SB	$60.00	SUB (31.8 MM X 178 MM THREAD BOX TO "AW" ROD PIN)	{1¼", 7"}
3402	SB	$50.00	SUB (31.8 MM X 178 MM THREAD PIN TO 31.8 MM X 178 MM THREAD PIN)	
3405	SB	$68.10	SUB (41.3 MM HEX PIN TO NW" ROD PIN)	{1⅝"}
3410	SB	$129.00	SUB ("HW" CASING PIN TO 101.6 MM PIPE PIN)	{4"}
3417	SB	$150.00	"NW" ROD BOX TO "PW" CASING PIN	
3420	DT	$450.00	SWIVEL, WATER (KING TYPE)	
3430	DT	$175.00	SWIVEL, WATER (PLAIN TYPE)	
3435	DT	$309.50	SWIVEL, WATER-SIDE FEED ***See Photo on Page 58.***	
3439	AU	$91.00	"T", 57.1 MM AUGER ***See Photo on Page 33.***	{2¼"}
3440	CP	$85.00	"T", "BW" CASING ***See Photo on Page 49.***	
3444	CP	$82.00	"T", "NW" CASING ***See Photo on Page 49.***	
3445	CP	$105.00	"T", "HW" CASING ***See Photo on Page 49.***	
3446	CP	$6.50	"T", 63.5 MM PIPE	{2½"}
3447	CP	$10.00	2" GALV. TEE #47832	{2"}
3448	CP	$10.00	1-1/2 GALV. TEE #47831	{1½"}
3450	CP	$9.65	"T", 101.6 MM PIPE	{4"}
3452	CP	$11.75	"T", 152.4 MM PIPE	{6"}
3455	HT	$20.00	TANK, PROPANE (9 KG)	{20 LB}
3456	DT	$200.00	FABRICATED SHEET METAL (MUD TANK)	
3470	DT	$133.70	TAP (FISHING "AW" COUP. I.D.)	
3480	DT	$132.95	TAP (FISHING "AW" COUP. O.D.)	
3490	DT	$133.70	TAP (FISHING "AW" ROD I.D.)	
3500	DT	$138.40	TAP (FISHING "AW" ROD O.D.)	
3510	DT	$78.00	TAP (FISHING "NW" COUP. I.D.)	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
3520	DT	$90.00	TAP (FISHING "NW" COUP. O.D.)	
3530	DT	$169.55	TAP (FISHING "NW" DRILL ROD I.D.)	
3540	DT	$242.70	TAP (FISHING "NW" DRILL ROD O.D.)	
3545	AU	$35.15	TAP, INSERT (CME AUGER) ***See Photo on Page 32.***	
3546	AU	$63.35	TAP FOR BOLTS 4 1/4" HD	
3555	HT	$50.00	LINEAR 100' TAPE MEASURING M1706	
3559	HT	$4.00	TAPE, TEFLON	
3560	DT	$.79	TAPE (PLASTIC)	
3570	HT	$45.50	TARP (PLASTIC 2.4 M X 3 M)	{8' X 10'}
3575	HT	$105.00	TARP, TRUCK (4.3 M X 4.9 M) .	{14' X 16'}
3580	HT	$146.25	TORCH (PROPANE COMPLETE)	
3587	CB	$185.00	** TUBE, INNER (CHRISTENSEN) NWD-4	
3590	CB	$86.00	TUBE, INNER ("AWX" 1.5 M)	{5'}
3600	CB	$95.00	TUBE, INNER ("BWX" 1.5 M)	{5'}
3605	CB	$279.75	** TUBE, INNER (CHRISTENSEN SPLIT)	
3610	CB	$115.00	TUBE, INNER ("NWX" 1.5 M)	{5'}
3615	CB	$150.00	CB TUBE, INNER (AW-34) ***See Photo on Page 42.***	
3620	CB	$84.00	TUBE, INNER ("AWM" 1.5 M)	{5'}
3630	CB	$101.00	TUBE, INNER ("BWM" 1.5 M)	{5'}
3640	CB	$90.00	TUBE, INNER ("NWM" 1.5 M)	{5'}
3650	CB	$80.00	TUBE, OUTER ("AWX" 1.5 M)	{5'}
3655	CB	$100.00	TUBE, OUTER (AW-34 1.52 M) ***See Photo on Page 42.***	{5'}
3660	CB	$99.00	TUBE, OUTER ("BWX" 1.5 M)	{5'}
3670	CB	$88.00	TUBE, OUTER ("NWX" 1.5 M)	{5'}
3680	CB	$83.00	TUBE, OUTER ("AWM" 1.5 M)	{5'}
3690	CB	$104.00	TUBE, OUTER ("BWM" 1.5 M)	{5'}
3700	CB	$108.50	TUBE, OUTER ("NWM" 1.5 M)	{5'}
3705	CB	$260.00	TUBE, OUTER "NW" (D-4 CHRISTENSEN)	
3710	DT	$1.52	TUBE, LEXAN (FOR "Z" GUAGE L.M.)	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
3717	AU	$200.00	UNIVERSAL (40 MM HEX PIN TO 40 MM HEX SOCKET) CME	{1⅝", 1⅝"}
3718	DT	$205.00	UNIVERSAL (40 MM HEX SOCKET TO 40 MM HEX SOCKET) 20 MG	{1⅝" TO 1⅝"}
3720	SA	$20.00	TUBE, SHELBY (88.9 MM) ***See Photo on Page 86.***	{3½"}
3721	DT	$15.00	VALVE, CHECK (BRASS 25.4 MM)	{1"}
3730	DT	$13.00	VALVE (BALL COCK 25.4 MM)	{1"}
3731	DT	$20.00	1-1/2" 3 WAY BRONZE BALL VALVE	{1½"}
3732	DT	$20.00	1" 3 WAY BRONZE BALL VALVE	{1"}
3735	DT	$18.00	VALVE (BALL COCK 38.1 MM)	{1½"}
3740	HT	$15.95	VALVE, DEMAND (PROPANE)	
3755	HO	$17.79	VALVE, FOOT (38.1 MM-BRASS)	{1½"}
3763	HO	$37.99	VALVE, FOOT (50.8 MM BRASS)	{2"}
3766	PI	$7.55	*** VEST, SAFETY	
3767	PI	$25.00	** VEST, FLOATING	
3770	DT	$100.00	VISE (PIPE 100 MM CAPACITY)	{4"}
3780	SA	$1.60	WAX (MIXED KG)	
3785	RD	$21.95	** WIPERS, RUBBER ("NW" ROD)	
3790	HT	$15.00	WRENCH, ALLEN (SET)	
3800	HT	$2.10	WRENCH, ALLEN (¼")	
3810	HT	$22.00	WRENCH (CHAIN 300 MM)	{12"}
3820	HT	$42.09	WRENCH (CHAIN 450 MM)	{18"}
3830	HT	$40.00	WRENCH (CHAIN 600 MM)	{24"}
3840	HT	$101.48	WRENCH (CHAIN 1 M)	{36"}
3850	HT	$6.25	WRENCH (CRESCENT 150 MM)	{6"}
3860	HT	$9.00	WRENCH (CRESCENT 200 MM)	{8"}
3870	HT	$12.70	WRENCH (CRESCENT 300 MM)	{12"}
3880	DT	$14.73	WRENCH, CHUCK (S&H 19.1 MM)	{¾"}
3890	HT	$8.69	WRENCH, 200 MM PIPE	{8"}
3900	HT	$12.80	WRENCH, 350 MM PIPE	{14"}
3910	HT	$19.75	WRENCH, 450 MM PIPE	{18"}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
3920	HT	$31.50	WRENCH, 600 MM PIPE	{24"}
3930	HT	$61.75	WRENCH, 1 M PIPE	{36"}
3936	HT	$4.75	WRENCH, OPEN END BOX COMBO (¼")	
3937	HT	$11.60	WRENCH, OPEN END BOX COMBO (5/16")	
3938	HT	$5.00	WRENCH, OPEN END BOX COMBO (⅜")	
3939	HT	$6.19	WRENCH, OPEN END BOX COMBO (7/16")	
3940	HT	$5.40	WRENCH, OPEN END BOX COMBO (½")	
3950	HT	$5.85	WRENCH, OPEN END BOX COMBO (9/16")	
3951	HT	$7.30	WRENCH, OPEN END BOX COMBO (⅝")	
3952	HT	$7.10	WRENCH, OPEN END BOX COMBO (11/16")	
3953	HT	$8.65	WRENCH, OPEN BOX COMBO (¾")	
3954	HT	$9.98	WRENCH, OPEN END BOX COMBO (⅞")	
3960	HT	$12.59	WRENCH, OPEN END BOX COMBO (15/16")	
3961	HT	$13.10	WRENCH, OPEN END BOX (1")	
3962	HT	$16.20	WRENCH, OPEN END BOX (1-1/16")	
3963	HT	$18.70	WRENCH, OPEN END BOX (1⅛")	
3964	HT	$26.65	WRENCH, OPEN END BOX (1¼")	
3980	HT	$14.35	WRENCH, RATCHET (½" DRIVE)	
3985	HT	$37.70	WRENCH, RATCHET (¾" DRIVE)	
3990	HT	$60.57	WRENCH, SOCKET SET (½" DRIVE)	
3991	HT	$65.80	WRENCH, CORE BARREL AW-34 INNER	
3992	HT	$93.80	WRENCH, CORE BARREL-34 OUTER	
4000	DB	$121.00	"AW" CORING SURFACE SET (FINE)	
4005	DB	$127.50	"AW" CORING SURFACE SET (COARSE)	
4010	DB	$150.00	"AW" CORING (IMPREGNATED)	
4015	DB	$135.50	"AXM" CORING SURFACE SET (COARSE)	
4020	DB	$235.00	"AW-34" CORING SURFACE SET (COARSE)	
4025	DB	$190.00	"AW-34" CORING (IMPREGNATED)	
4026	DB	$200.00	"AW-34" CORING (IMP.) HOFFMAN (COPPER) VERY HARD FORMATIONS	
4028	DB	$200.00	"AW-34" CORING (IMP.) HOFFMAN (TAN) HARD ROCK	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
4030	DB	$160.00	"BW" CORING SURFACE SET (FINE)	
4035	DB	$165.00	"BW" CORING SURFACE SET (COARSE)	
4038	DB	$250.00	"BW" CORING (IMP.) COPPER HOFFMAN (VERY HARD FORMATIONS)	
4039	DB	$250.00	"BW" CORING (IMP.) HOFFMAN (TAN) VERY HARD FORMATIONS	
4040	DB	$193.00	"BW" CORING (IMPREGNATED)	
4045	DB	$200.00	"BXM" CORING SURFACE SET (COARSE)	
4050	DB	$200.00	"BX" CASING SHOE SURFACE SET (COARSE)	
4055	DB	$200.00	"BX" CASING SHOE (IMPREGNATED)	
4060	DB	$175.00	"BW" CASING SHOE SURFACE SET (COARSE)	
4065	DB	$193.00	"BW" CASING SHOE (IMPREGNATED)	
4070	DB	$215.00	"NW" CORING SURFACE SET (FINE)	
4075	DB	$215.00	"NW" CORING SURFACE SET (COARSE)	
4077	DB	$250.00	"NW" CORING (IMP.) HOFFMAN (TAN) HARD ROCK	
4078	DB	$250.00	"NW" CORING (IMP.) HOFFMAN (COPPER) VERY HARD FORMATIONS	
4079	DB	$400.00	"NW" CORING (IMP.) CHRISTENSEN (BLACK) EXTREMELY HARD ROCK	
4080	DB	$244.00	"NW" CORING (IMPREGNATED)	
4081	DB	$278.00	NWD-4 DIAMOND BIT (COPPER)	
4085	DB	$215.00	"NXM" CORING SURFACE SET (COARSE)	
4090	DB	$200.00	"NX" CASING SHOE SURFACE SET (COARSE)	
4095	DB	$200.00	"NX" CASING SHOE (IMPREGNATED)	
4100	DB	$245.00	"NW" CASING SHOE SURFACE SET (COARSE)	
4105	DB	$250.00	"NW" CASING SHOE (IMPREGNATED)	
4110	DB	$290.00	"NWD-3" CORING SURFACE SET (COARSE) (CHRISTENSEN)	
4115	DB	$250.00	"NWD-4" CORING SURFACE SET (COARSE) (CHRISTENSEN)	
4116	DB	$198.00	"NWD-4" CORING SURFACE SET (FINE) (CHRISTENSEN)	
4119	DB	$220.00	"NWD-4" CORING (IMP.) CHRISTENSEN (TAN) HARD ROCK	
4120	DB	$350.00	"NWD-4" CORING (IMPREGNATED) (CHRISTENSEN)	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
4125	DB	$456.00	"NQ-2" CORING (IMPREGNATED) (WIRELINE)	
4130	DB	$285.00	"HW" CORING SURFACE SET (FINE)	
4135	DB	$300.00	"HW" CORING SURFACE SET (COARSE)	
4139	DB	$300.00	"HW" CORING (IMP.) HOFFMAN VERY HARD FORMATIONS	
4140	DB	$295.00	"HW" CORING (IMPREGNATED)	
4141	DB	$300.00	"HW" CORING (IMP.) HOFFMAN (TAN) HARD ROCK	
4145	DB	$275.00	"HW" CASING SHOE SURFACE SET (COARSE)	
4150	DB	$290.00	"HW" CASING SHOE (IMPREGNATED)	
4151	DB	$300.00	"HWCS" CASING SHOE (IMP.) HOFFMAN (COPPER HARD ROCK)	
4152	DB	$300.00	"HWCS" CASING SHOE (IMP.) HOFFMAN (TAN) HARD ROCK	
4153	PB	$592.00	4.812X4.00 BR. IMP. BIT G-11448	
4160	PB	$70.00	2½" THIN WALL BITS SURFACE SET (COARSE)	
4163	PB	$125.00	4¼" THIN WALL BITS SURFACE SET (COARSE)	
4165	PB	$128.00	4¼" THIN WALL BITS (IMPREGNATED)	
4170	PB	$200.00	6¼" THIN WALL BITS (IMPREGNATED)	
4175	PB	$181.00	6¼" THIN WALL BITS SURFACE SET (COARSE)	
4176	PB	$440.00	PW CASING SHOE BITS IMP.	
4177	PB	$334.76	NW HEAVY DUTY CASING SHOE IMP.	

AUGERS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
AU	105	$114.00	BAR, 41 MM HEX, AUGER EXT. ***See Photo on Page 28.***	{1⅝"}
AU	575	$4.90	BLADES (CUTTER FOR CME) ***See Photo on Page 29.***	
AU	580	$10.00	BLADES (CUTTER FOR MOBILE-EA.)	
AU	595	$20.00	CENTER HEAD ASSEMBLY FOR PILOT	{2¼"}
AU	596	$30.00	CENTER HEAD ASSEMBLY FOR PILOT	{4¼"}
AU	626	$3.50	BOLT DRIVE CAP W/NUT (21011)	
AU	628	$2.90	BOLTS (FOR CME AUGERS) ***See Photo on Page 29.***	
AU	630	$2.00	BOLTS (FOR MOBILE CUTTER BLADES-EA.)	
AU	681	$5.00	BULLITS, FOR USE WITH BULLIT TYPE CUTTER HAND ***See Photo on Page 29.***	
AU	775	$137.00	CAPS, DRIVE (CME) 57 MM AUGER ***See Photo on Page 29.***	{2¼"}
AU	777	$222.00	CAPS, DRIVE (CME) 1088 MM AUGER ***See Photo on Page 29.***	{4¼"}
AU	1383	$190.00	FLIGHTS (57 MM HOL. 0.6 M LENGTHS) ***See Photo on Page 30.***	{2¼", 2'}
AU	1384	$242.00	FLIGHTS (57 MM X 159 MM HOL. 1.5 M LENGTHS) ***See Photo on Page 30.***	{2¼", 6¼", 5}
AU	1386	$357.00	FLIGHTS ***See Photo on Page 30.***	{4¼",8",5'}
AU	1389	$200.00	FLIGHTS (86 MM X 210 MM HOL. 0.6 M LENGTHS)	{3⅜", 8¼", 2'}
AU	1390	$325.00	FLIGHTS (86 MM HOL. 1.5 M LENGTHS-MOBILE)	{3⅜", 5'}
AU	1400	$175.00	FLIGHTS (100 MM SOL.,1.5 M LENGTHS-MOBILE)	{4", 5'}
AU	1413	$175.00	FORK, AUGER ***See Photo on Page 31.***	{4¼"}
AU	1414	$45.00	FORK, AUGER 57 MM HSA ***See Photo on Page 31.***	{2¼"}
AU	1415	$6.00	FUNNEL (JUST-RITE, POUR)-GREY OR YELLOW	
AU	1532	$29.20	HAMMER, POINTED (FOR C.M.E.) ***See Photo on Page 32.***	
AU	1630	$250.00	HEAD, ADAPTOR (MOBILE FLIGHTS)	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
AU	1631	$180.00	CUTTER HEAD BULLIT TYPE ***See Photo on Page 31.***	{2¼"}
AU	1635	$203.00	HEAD, CUTTER (57.2 MM CME) ***See Photo on Page 31.***	{2¼"}
AU	1637	$230.00	HEAD, CUTTER {108 MM CME} ***See Photo on Page 31.***	{4¼}
AU	1690	$421.00	HEAD CUTTER, MOBILE FLIGHT (BLADE TYPE (158.8 MM X 57.1 MM)	{3⅜", 8¼"}
AU	1735	$35.00	HOOK, HOISTING (CME AUGER) ***See Photo on Page 32.***	
AU	1785	$2.25	INSERT, THREADED (CME-AUGER)	
AU	1901	$10.00	COUPLED KEYS 2-1/4 AU 21067	{2¼"}
AU	2103	$125.00	PILOT ASSY. 2.25 AW (21018) ***See Photo on Page 30.***	
AU	2104	$257.00	PILOT ASSEMBLY ***See Photo on Page 30.***	{4¼"}
AU	2115	$2.90	PIN, DRIVE (CME AUGER) ***See Photo on Page 32.***	
AU	2116	$4.00	CENTER HEAD PIN FOR PILOT ASSEMBLY ***See Photo on Page 30.***	{2¼"}
AU	2117	$4.00	CENTER HEAD PIN FOR PILOT ASSEMBLY	{4¼"}
AU	2353	$7.00	RETAINER, PLASTIC CME CUTTER HEAD (57.0 MM)	{2¼"}
AU	2395	$425.00	** RETREAVER, 57 MM AUGER	{2¼"}
AU	2403	$1.00	RING, "O" 2-¼" CME AUGER	
AU	2565	$43.00	ROD TO CAP 2.25 AW (21013) ***See Photo on Page 33.***	
AU	2566	$60.00	ROD TO CAP 4¼" AW CONN. ***See Photo on Page 33.***	
AU	3071	$94.00	SLIPS, ROD AW 2¼" I.D. AUGER ***See Photo on Page 33.***	
AU	3074	$150.00	SLIPS, ROD AW 4¼" I.D. AUGER ***See Photo on Page 33.***	
AU	3439	$91.00	"T", 57.1 MM AUGER ***See Photo on Page 33.***	{2¼"}
AU	3545	$35.15	TAP, INSERT (CME AUGER) ***See Photo on Page 32.***	
AU	3717	$200.00	UNIVERSAL (40 MM HEX PIN TO 40 MM HEX SOCKET) CME	{1⅝", 1⅝"}

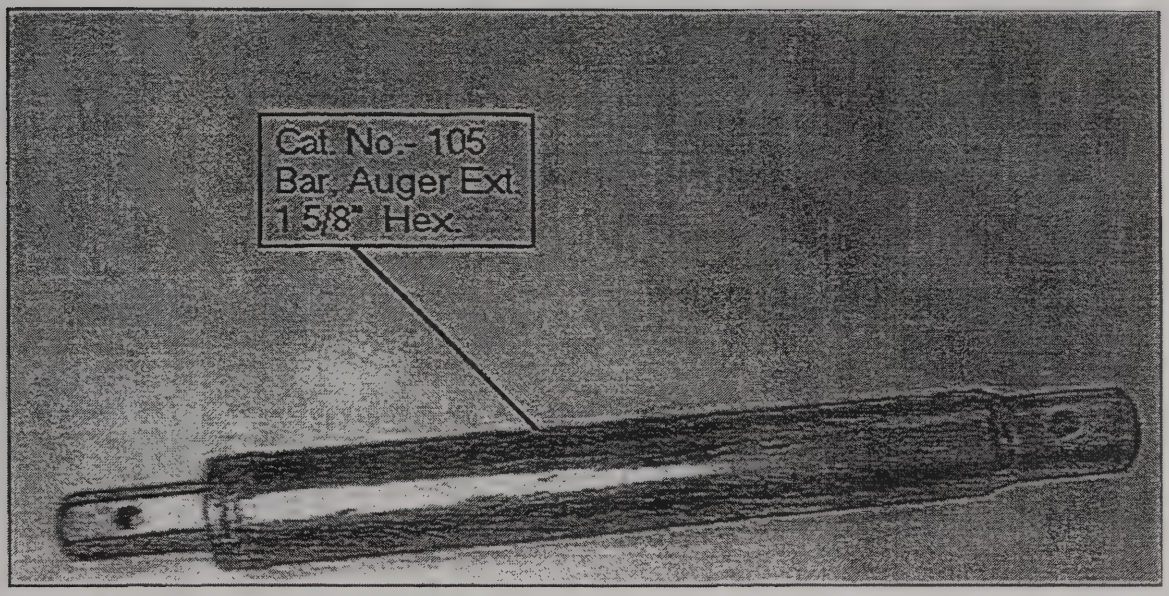


Photo #1

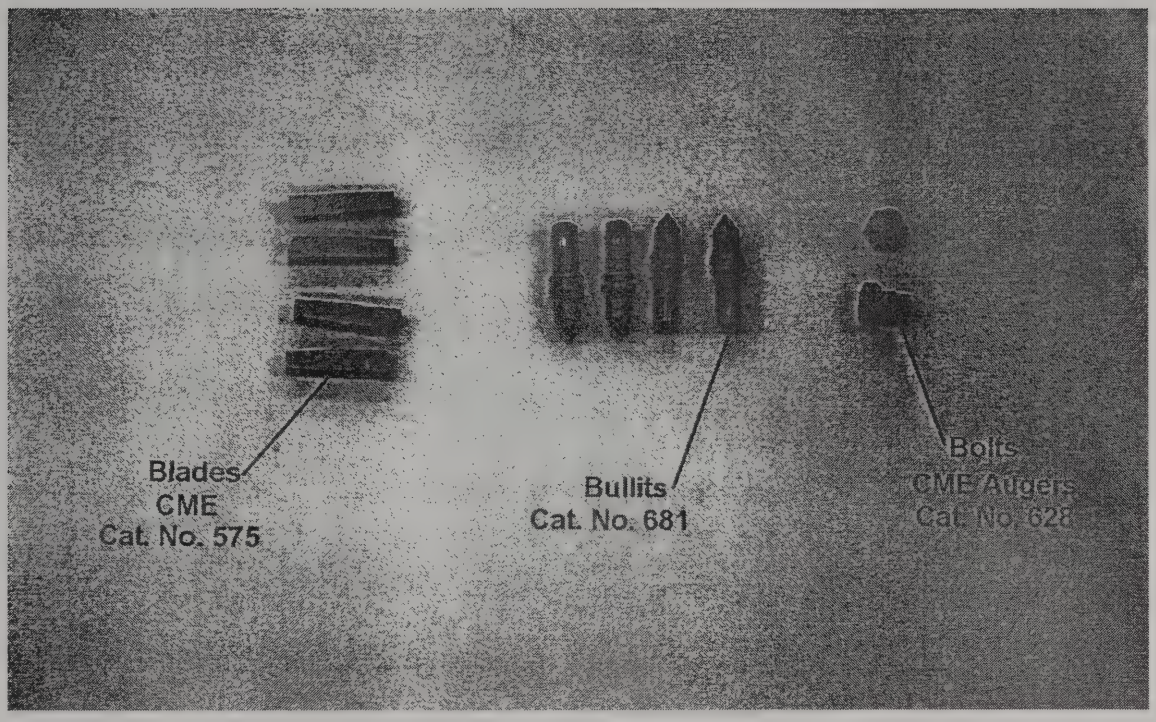


Photo #2

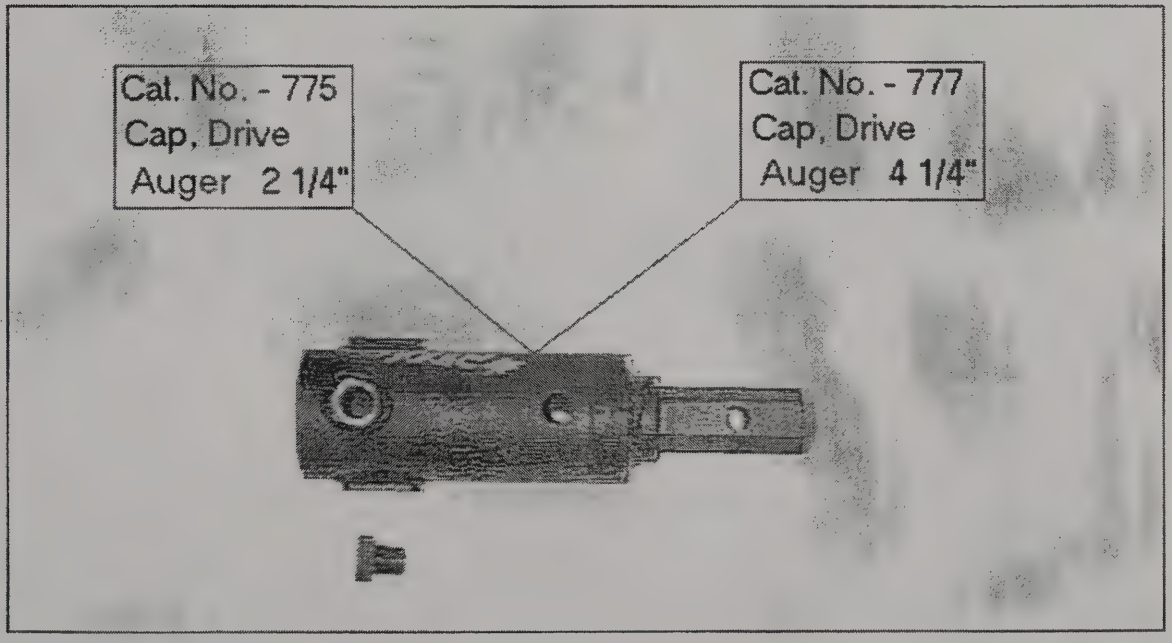


Photo #3

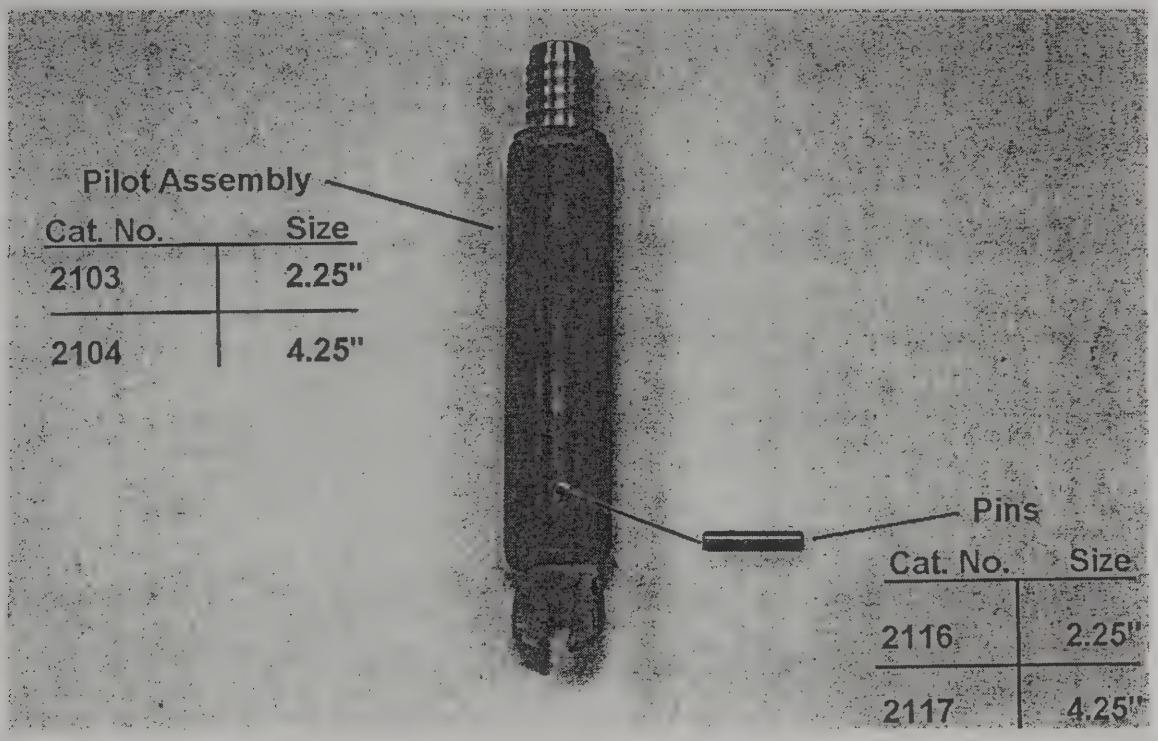


Photo #4

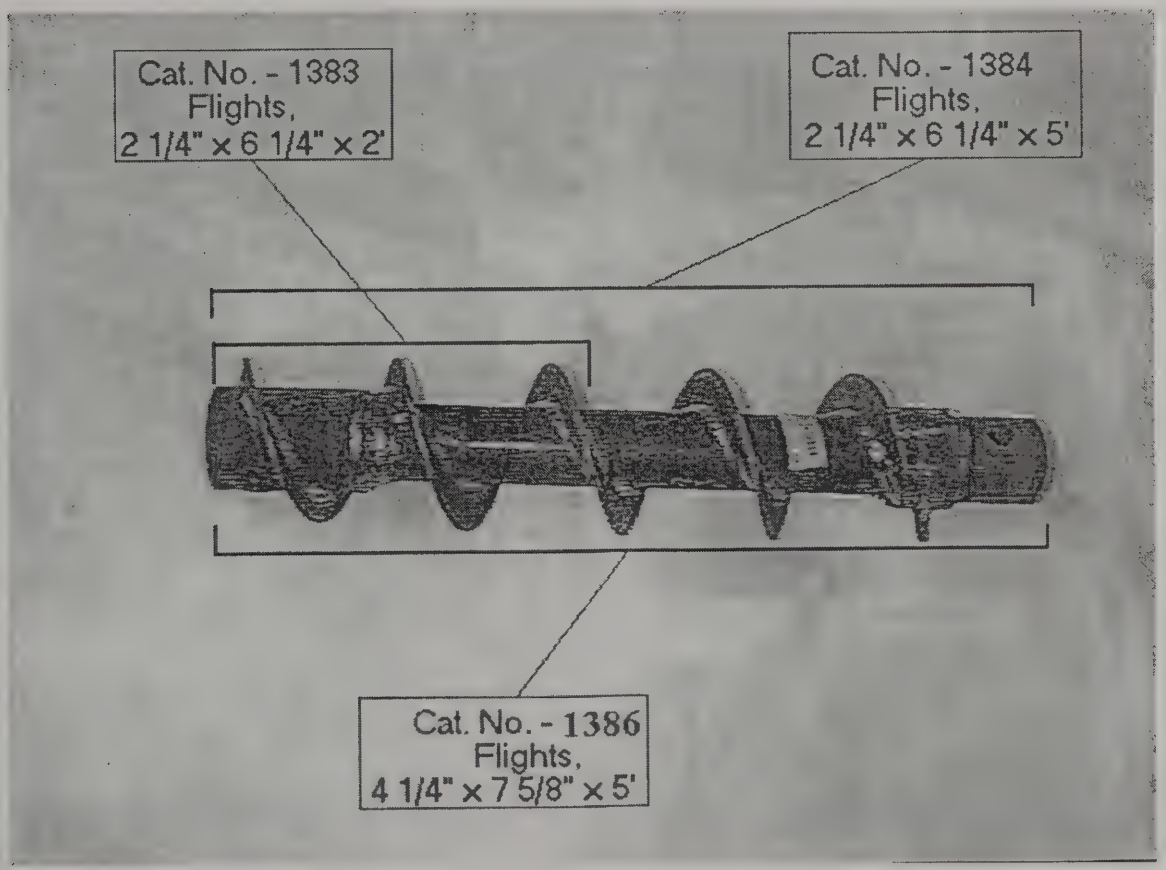


Photo #5

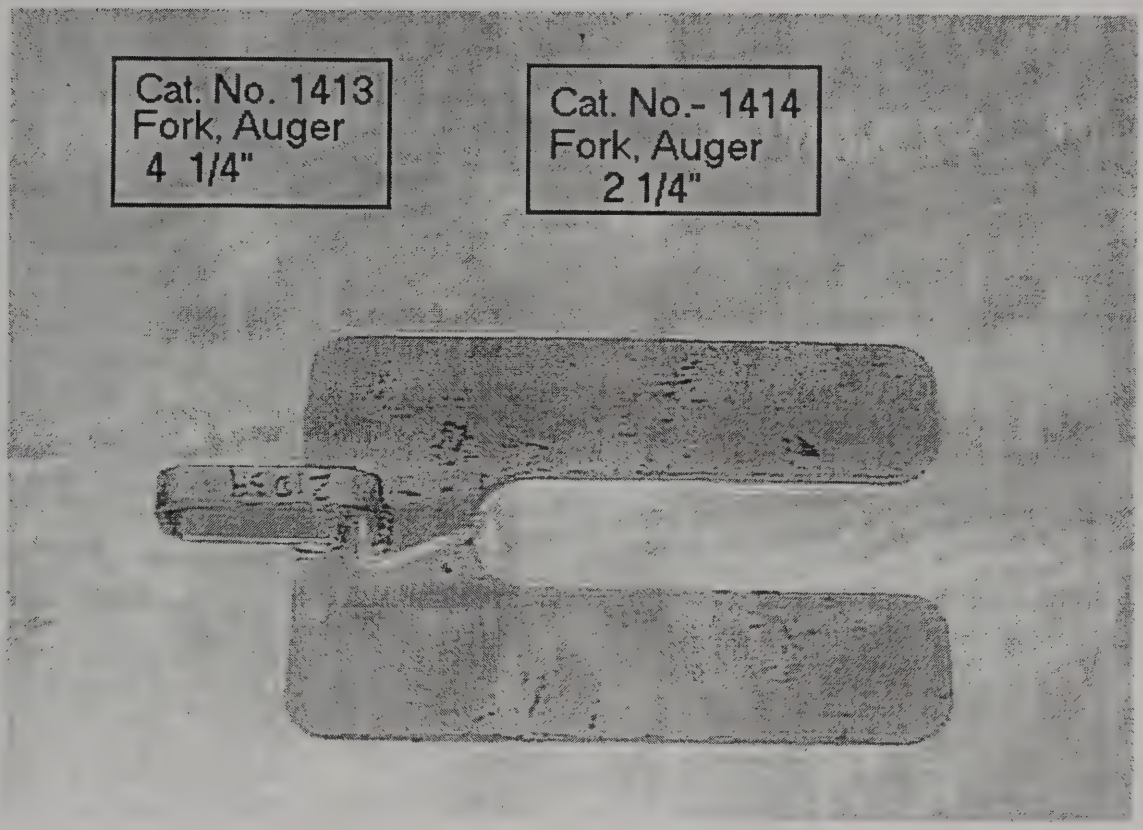


Photo #6

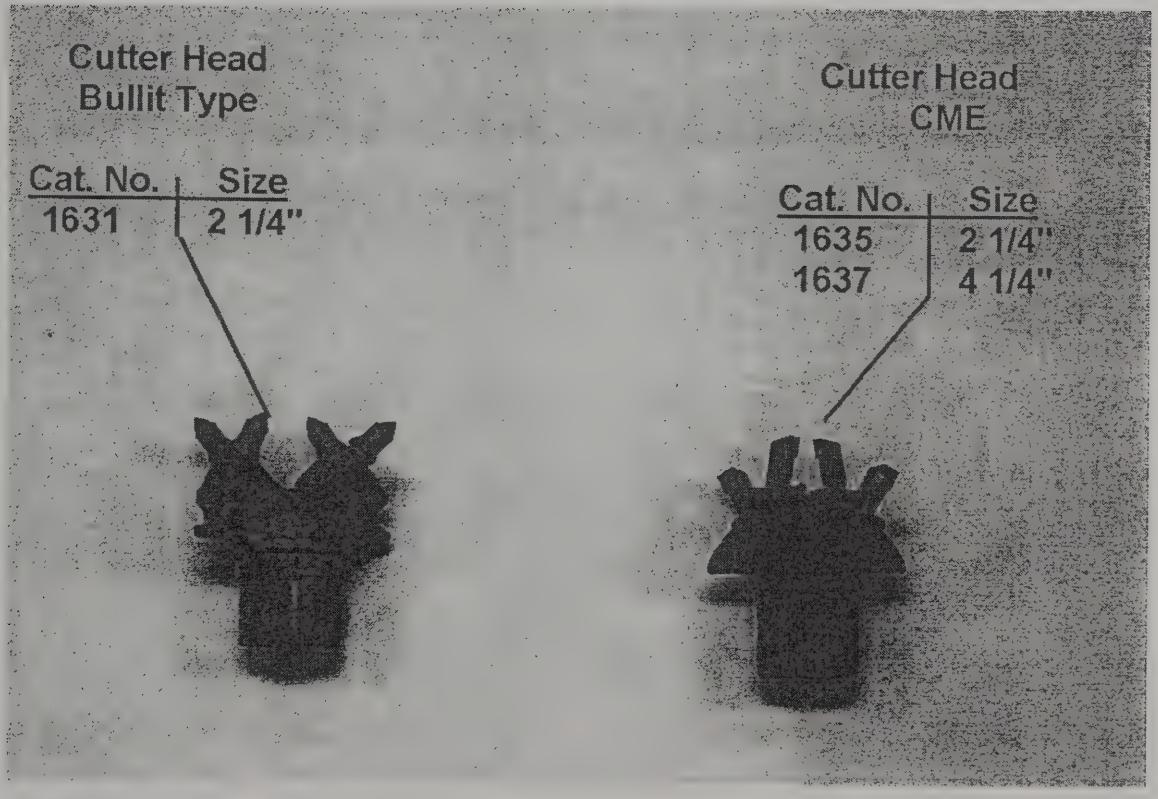


Photo #7

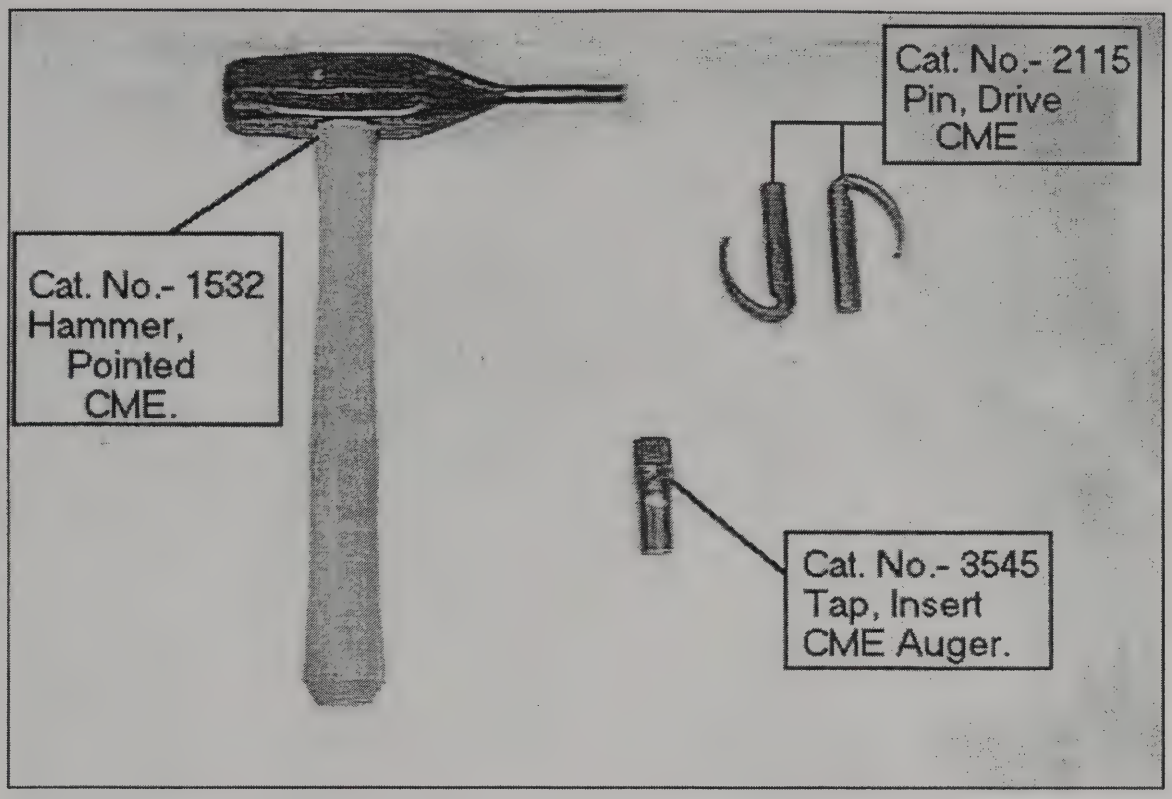


Photo #8

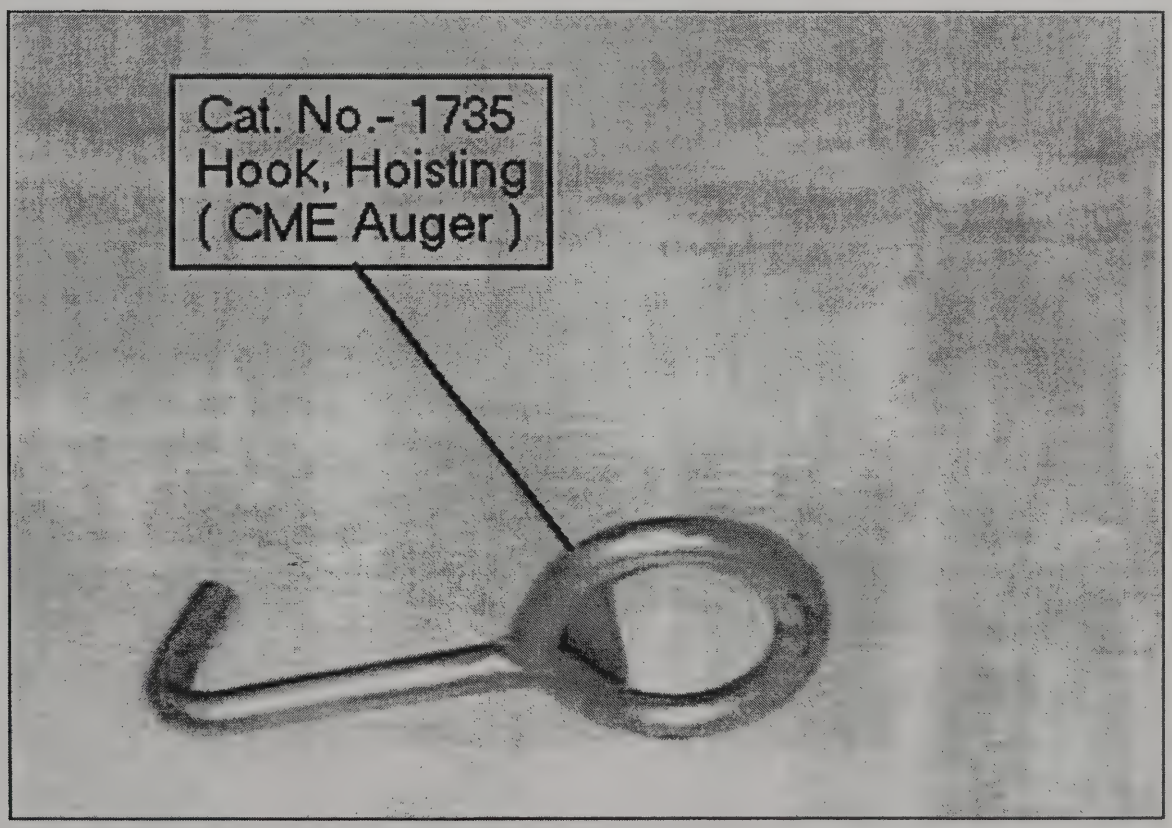
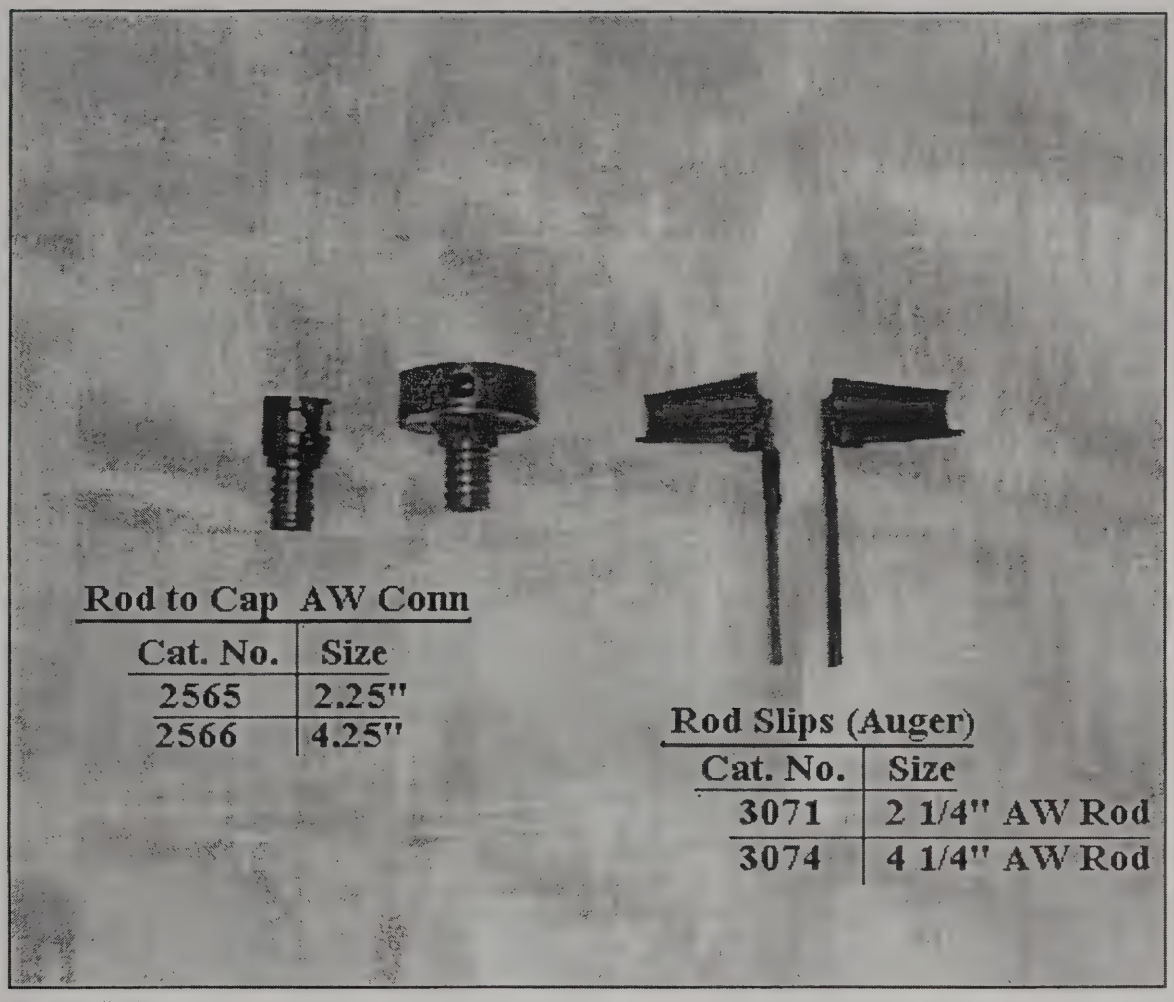


Photo #9



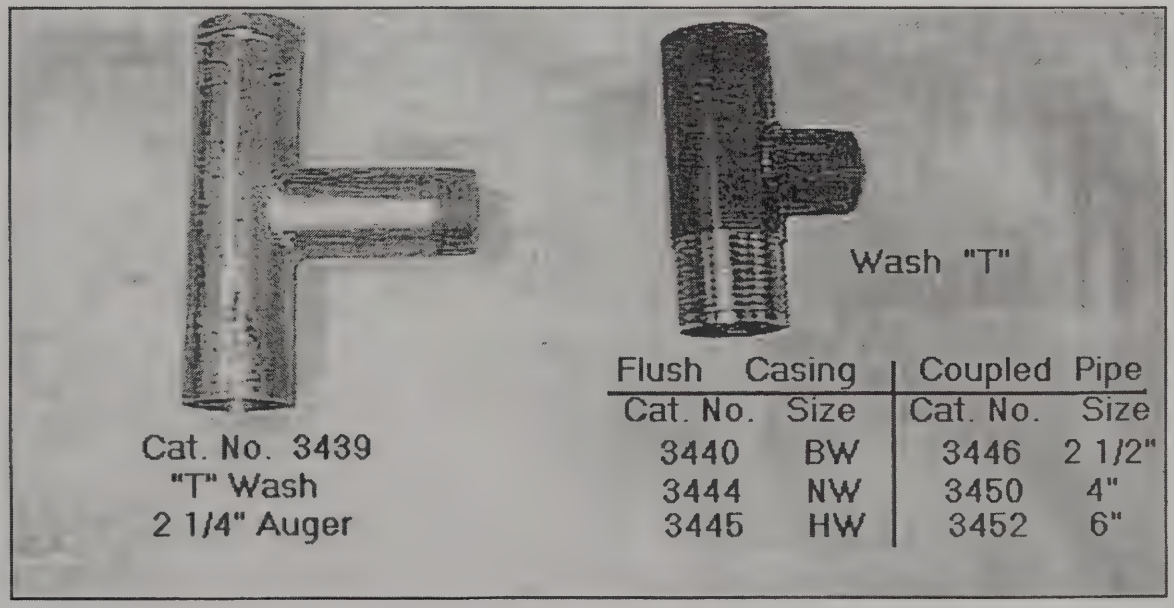
Rod to Cap AW Conn

Cat. No.	Size
2565	2.25"
2566	4.25"

Rod Slips (Auger)

Cat. No.	Size
3071	2 1/4" AW Rod
3074	4 1/4" AW Rod

Photo #10



Cat. No. 3439
"T" Wash
2 1/4" Auger

Wash "T"

Flush Casing		Coupled Pipe	
Cat. No.	Size	Cat. No.	Size
3440	BW	3446	2 1/2"
3444	NW	3450	4"
3445	HW	3452	6"

Photo #11

BITS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
BT	380	$80.00	BIT, CHOPPING ("AW" CONN.-54 MM WIDTH)	{2⅛"}
BT	384	$90.00	BIT, CROSS CHOPPING ("AW"CONN.-44.5 MM WIDTH)	{1¾"}
BT	390	$185.00	BIT, CHOPPING ("NW" CONN.-82.6 MM WIDTH)	{3¼"}
BT	400	$85.00	BIT, DRAG 57 MM (QUARRY BIT) ***See Photo on Pag 36.***	{2¼"}
BT	410	$97.00	BIT, DRAG 88.9 MM (QUARRY BIT) ***See Photo on Page 36.***	{3½"}
BT	504	$100.00	BIT, ROLLER 50 MM BICONE ("AW" CONN) (2") ***See Photo on Page 36.***	{2'"}
BT	505	$135.00	BIT, ROLLER 75 MM ***See Photo on Page 36.***	{2-15/16"}
BT	510	$190.00	BIT, ROLLER 83 MM ("NW" CONN.)	{3¼"}
BT	520	$170.00	BIT, ROLLER 90 MM (60.3 MM API CONN.)	{3½", 2⅜"}
BT	530	$162.40	BIT, ROLLER 95 MM (60.3 MM API CONN.) ***See Photo on Page 36.***	{3¾", 2⅜"}
BT	540	$205.00	**BIT, ROLLER 114 MM (60.3 MM API CONN.)	{4½", 2⅜"}
BT	550	$231.00	**BIT, ROLLER 143 MM (88.9 MM API CONN.)	{5⅝", 3½"}

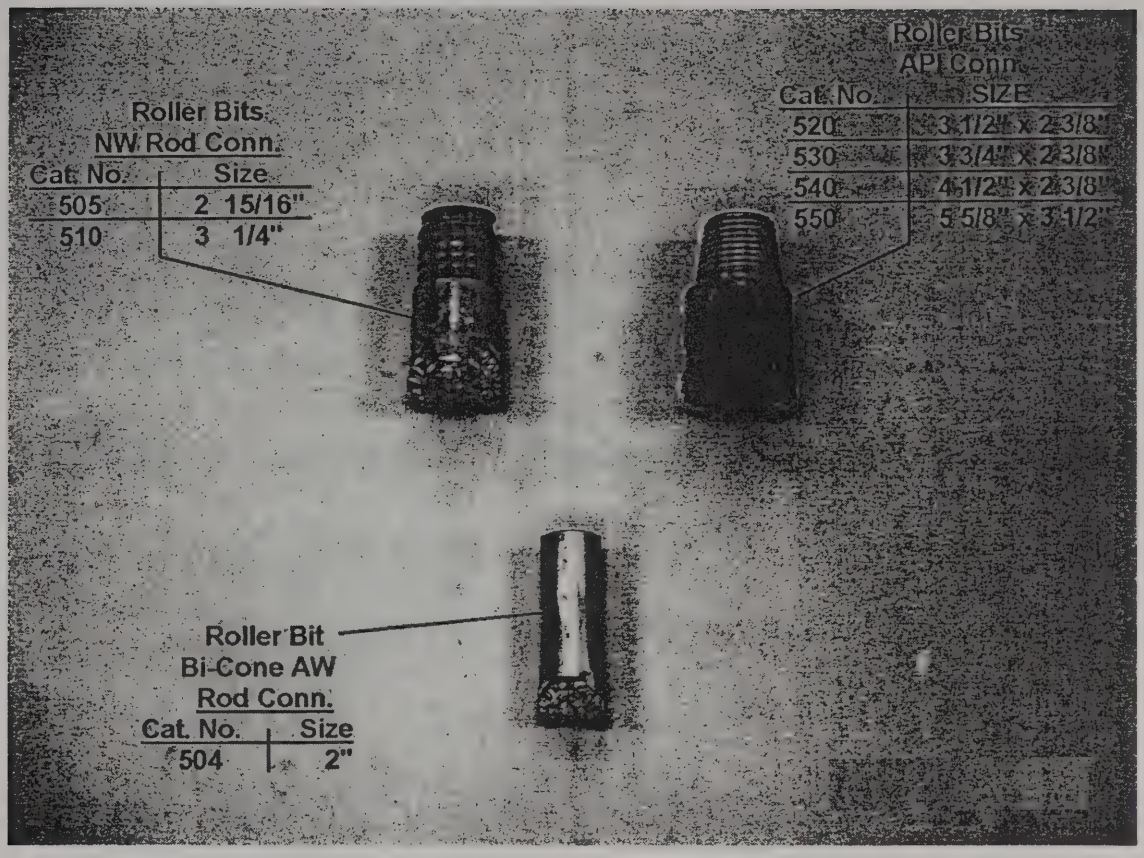


Photo #12

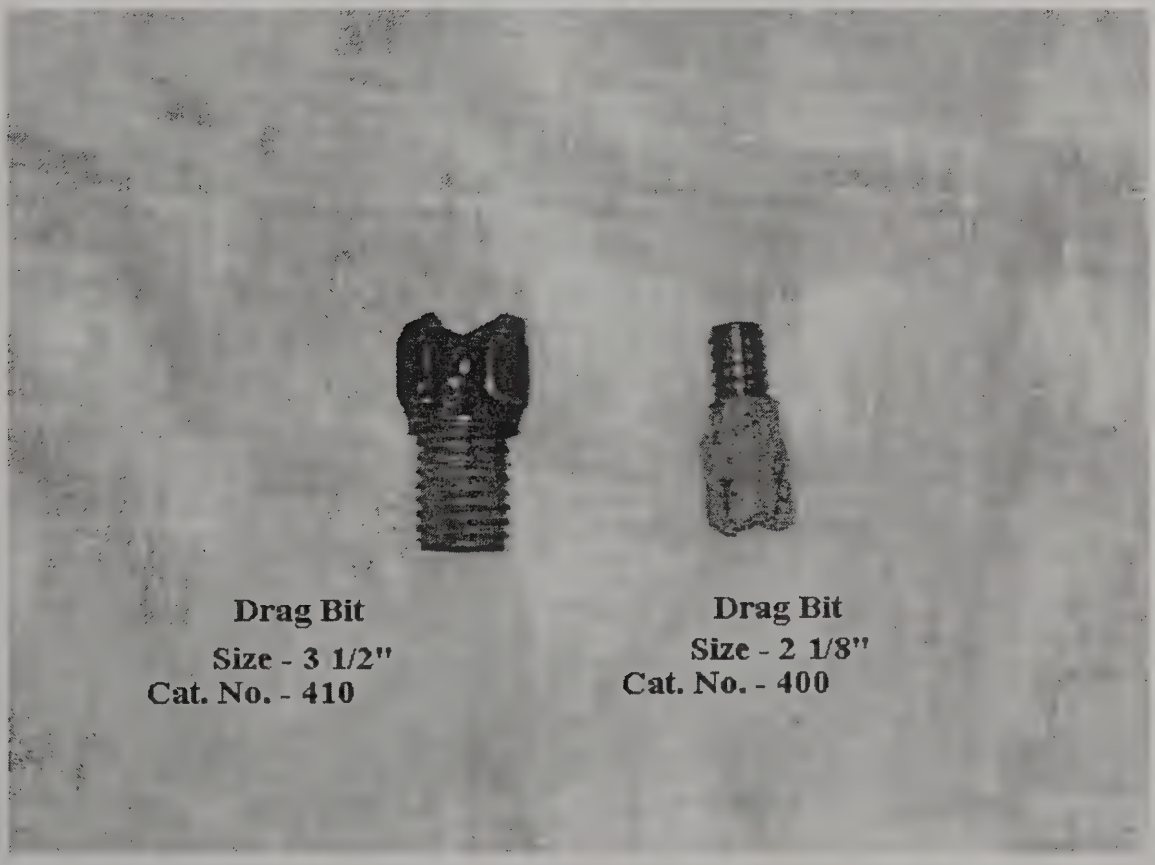


Photo # 13

CORE BARRELS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
CB	150	$154.00	BARREL, CORE ("AWX" S.T. 1.5 M/AW ROD CONN)	{5'}
CB	155	$595.00	BARREL, CORE (AW 34 D.T. 1.5 M/AW ROD CONN) ***See Photo on Page 42.***	{5'}
CB	170	$280.00	BARREL, CORE ("AWM" D.T. 1.5 M/AW ROD CONN)	{5'}
CB	190	$179.00	BARREL, CORE ("BWX" S.T. 1.5 M/BW ROD CONN) ***See Photo on Page 42.***	{5'}
CB	200	$331.50	BARREL, CORE ("BWX" D.T. 1.5 M/BW ROD CONN)	{5'}
CB	210	$344.50	BARREL, CORE ("BWM" D.T. 1.5 M/BW ROD CONN)	{5'}
CB	230	$216.00	BARREL, CORE ("NWX" S.T. 1.5 M/NW ROD CONN)	{5'}
CB	240	$350.00	BARREL, CORE ("NWX" D.T. 1.5 M/"NW" ROD CONN)	{5'}
CB	241	$550.00	BARREL, CORE ("NWX" D.T. 3 M/"NW" ROD CONN)	{10'}
CB	247	$250.00	BARREL, CORE ("NWM" D.T. .6 M/"NW" ROD CONN)	{2'}
CB	250	$475.00	BARREL, CORE ("NWM" D.T. 1.5 M/"NW" ROD CONN)	{5'}
CB	255	$865.00	BARREL, CORE (NXD4 1.5 M CHRISTENSEN/"NW" ROD CONN)	{5'}
CB	257	$928.55	** BARREL, CORE ("NQ" 50 MM WIRELINE LONGYEAR D.T. 5)	{2",5'}
CB	258	$1000.80	** BARREL, CORE ("NQ" 50 MM WIRELINE 3 M)	{2",10'}
CB	260	$350.00	BARREL, CORE ("HWX" S.T. 1.5 M/NW ROD CONN)	{5'}
CB	290	$25.00	BEARING, "AWX"/"AWM" CORE BARREL (SET)	
CB	300	$30.00	BEARING, "NWX"/"NWM" CORE BARREL (SET)	
CB	303	$50.00	BEARING NWD-4CB	
CB	830	$31.00	CASE, LIFTER ("AWM")	
CB	835	$21.00	CASE, LIFTER (AW-34) ***See Photo on Page 41.***	
CB	840	$31.00	CASE, LIFTER ("BWM")	
CB	850	$20.00	CASE, LIFTER ("NWM")	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
CB	855	$25.00	CASE, LIFTER (NXD-4) ***See Photo on Page 41.***	
CB	1930	$12.30	LIFTER, CORE ("AX") ***See Photo on Page 41.***	
CB	1931	$15.00	LIFTER, CORE AW34 ***See Photo on Page 41.***	
CB	1940	$16.00	LIFTER, CORE ("BX") ***See Photo on Page 41.***	
CB	1950	$129.00	LIFTER, CORE ("HX") ***See Photo on Page 41.***	
CB	1960	$19.00	LIFTER, CORE ("NX") ***See Photo on Page 41.***	
CB	1985	$23.00	LIFTER, CORE (NWD-4, CHRISTENSEN)	
CB	2840	$32.00	SHELL, REAMING ('AWX' BLANK ST)	
CB	2850	$43.00	SHELL, REAMING ('BWX' BLANK ST)	
CB	2860	$43.50	SHELL, REAMING ('NWX' BLANK ST)	
CB	2870	$63.00	SHELL, REAMING ('HX' BLANK ST)	
CB	2875	$124.00	SHELL, REAMING AW34 ***See Photo on Page 41.***	
CB	2880	$40.50	SHELL, REAMING ('AWX' BLANK DT)	
CB	2890	$49.00	SHELL, REAMING ('BWX' BLANK DT)	
CB	2895	$43.50	SHELL, REAMING (NWD-4,76.2 MM)	{3"}
CB	2900	$40.00	SHELL, REAMING ('NWX' BLANK DT)	
CB	2910	$43.00	SHELL, REAMING ('AWM' BLANK)	
CB	2920	$35.50	SHELL, REAMING ('BWM' BLANK)	
CB	2930	$29.00	SHELL, REAMING ('NWM' BLANK)	
CB	2932	$129.00	SHELL, REAMING (NWD-4) ***See Photo on Page 41.***	
CB	3587	$185.00	** TUBE, INNER (CHRISTENSEN) NWD-4	
CB	3590	$86.00	TUBE, INNER ("AWX" 1.5 M)	{5'}
CB	3600	$95.00	TUBE, INNER ("BWX" 1.5 M)	{5'}
CB	3605	$279.75	** TUBE, INNER (CHRISTENSEN SPLIT)	
CB	3610	$115.00	TUBE, INNER ("NWX" 1.5 M)	{5'}
CB	3615	$150.00	TUBE, INNER (AW-34) ***See Photo on Page 42.***	
CB	3620	$84.00	TUBE, INNER ("AWM" 1.5 M)	{5'}
CB	3630	$101.00	TUBE, INNER ("BWM" 1.5 M)	{5'}
CB	3640	$90.00	TUBE, INNER ("NWM" 1.5 M)	{5'}

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
CB	3650	$80.00	TUBE, OUTER ("AWX" 1.5 M)	{5'}
CB	3655	$100.00	TUBE, OUTER (AW-34 1.52 M) ***See Photo on Page 42.***	{5'}
CB	3660	$99.00	TUBE, OUTER ("BWX" 1.5 M)	{5'}
CB	3670	$88.00	TUBE, OUTER ("NWX" 1.5 M)	{5'}
CB	3680	$83.00	TUBE, OUTER ("AWM" 1.5 M)	{5'}
CB	3690	$104.00	TUBE, OUTER ("BWM" 1.5 M)	{5'}
CB	3700	$108.50	TUBE, OUTER ("NWM" 1.5 M)	{5'}
CB	3705	$260.00	TUBE, OUTER "NW" (D-4 CHRISTENSEN)	

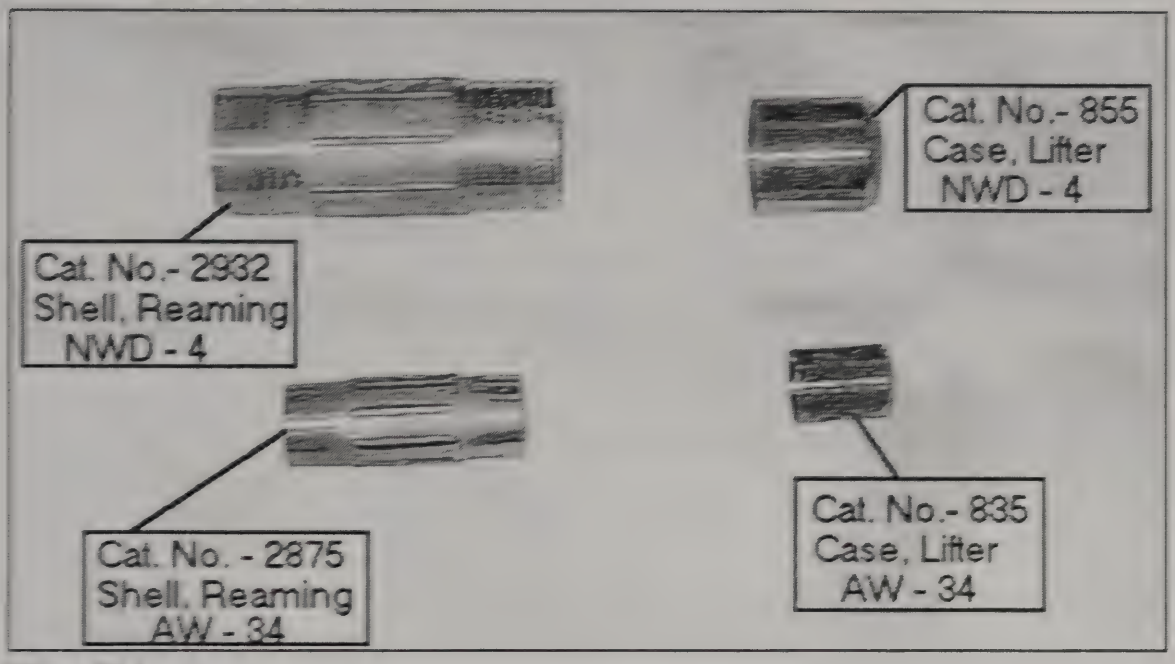
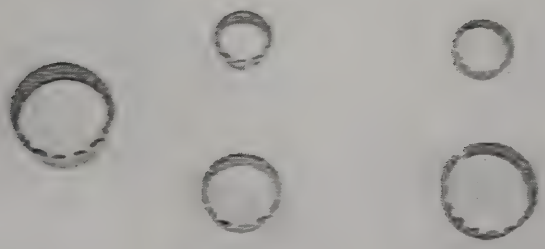


Photo #14

Core Lifters

Size	Cat. No.
AW	1930
AW-34	1931
BW	1940

Size	Cat. No.
NW	1960
NWD-4	1985
HW	1950



Phot #15

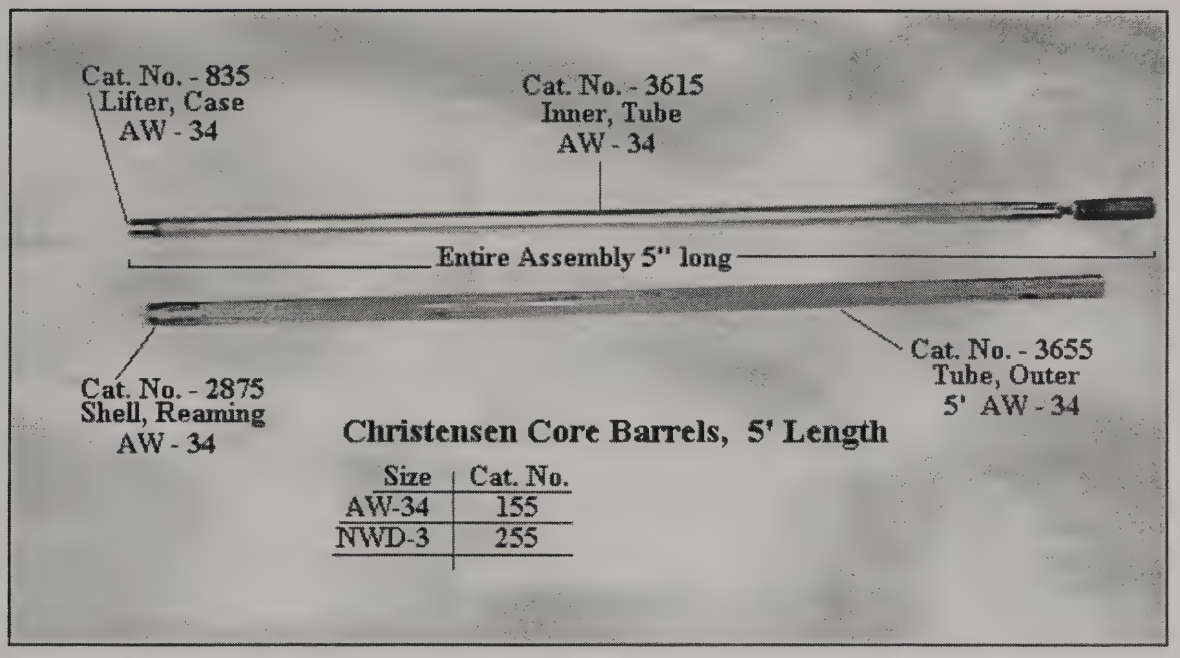


Photo #16

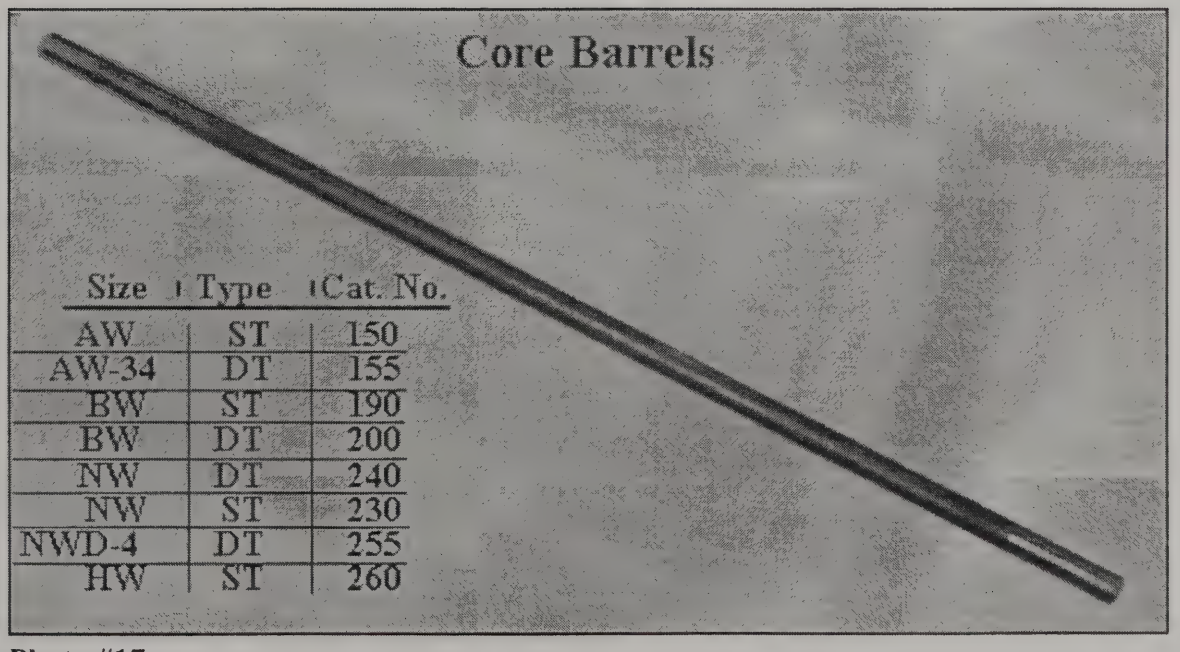


Photo #17

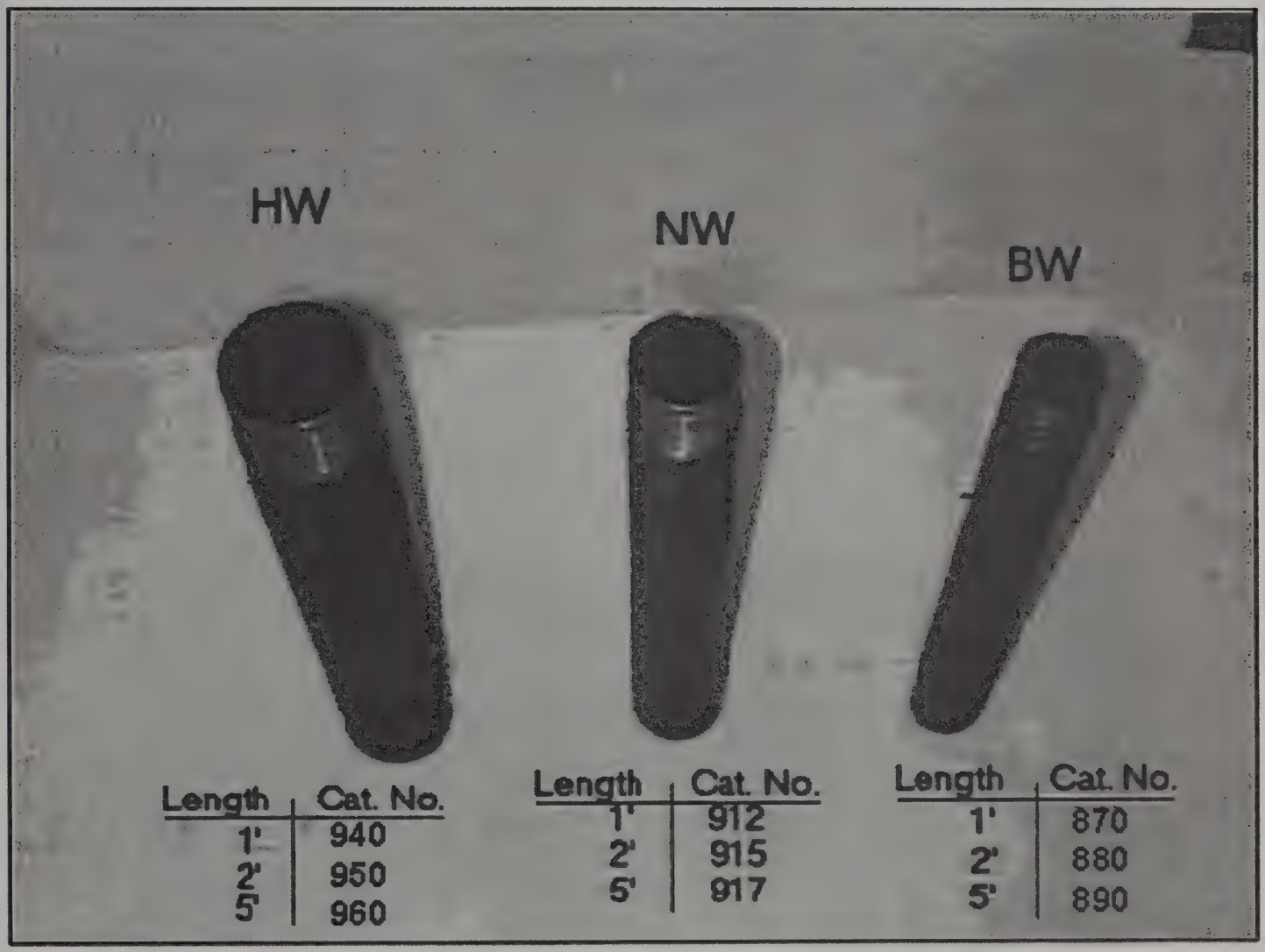
CASING & PIPE

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
CP	30	$.75	ADAPTORS (25.4 MM PVC STAB TO 25.4 MM PIPE FEMALE)	{1"}
CP	33	$9.68	6" PVCPRS MALE ADPT. SLIP TO MALE	
CP	35	$.76	ADAPTORS (25.4 MM PVC STAB TO 25.4 MM MALE PIPE)	{1"}
CP	36	$14.30	6" PVC ADAPT SLIP TO FEMALE	
CP	774	$5.00	PVC END CAPS, SIZE 2 "#46349	{2"}
CP	779	$5.00	2" GALV. CAP #47836	{2"}
CP	781	$5.00	1½"GALVANIZED CAP	{1½"}
CP	782	$5.00	1¼" GALVANIZED CAP	{1¼"}
CP	795	$3.00	CAPS (SI 84.4 MM)	{3.34"}
CP	801	$1.00	CAP, PVC (25.4 MM PIPE THREAD)	{1"}
CP	809	$10.78	6" PVC PRES CAP SCH 40	
CP	865	$42.30	CASING, "AW" (1.5 M LENGTH)	{5'}
CP	870	$31.00	CASING, "BW" (0.3 M LENGTH)	{1'}
CP	880	$42.00	CASING, "BW" (0.6 M LENGTH) ***See Photo on Page 48.***	{2'}
CP	890	$60.00	CASING, "BW" (1.5 M LENGTH)	{5'}
CP	912	$40.00	CASING, "NW" (0.3 M LENGTH)	{1'}
CP	915	$48.00	CASING, "NW" (0.6 M LENGTH)	{2'}
CP	917	$70.00	CASING, "NW" (1.5 M LENGTH) ***See Photo on Page 48.***	{5'}
CP	940	$39.00	CASING, "HW" (0.3 M LENGTH)	{1'}
CP	950	$68.00	CASING, "HW" (0.6 M LENGTH) ***See Photo on Page 48.***	{2'}
CP	960	$90.00	CASING, "HW" (1.5 M LENGTH-EA.)	{5'}
CP	962	$75.00	** CASING, "PW" (0.6 M LENGTH)	{2'}
CP	963	$123.50	** CASING, "PW" (1.5 M LENGTH)	{5'}
CP	1180	$1.00	* COUPLINGS (25.4 MM PVC)	{1"}
CP	1190	$2.50	* COUPLINGS (76.2 PVC)	{3"}
CP	1195	$5.00	COUPLINGS (SI 84.8 MM)	{3.34"}
CP	1200	$.55	COUPLINGS (12.7 MM PIPE)	{½"}
CP	1201	$5.48	COUPLING, REDUCER (2"X1½")	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
CP	1202	$3.11	COUPLING, REDUCER (1¼X1")	
CP	1210	$.99	COUPLING (19.1 MM PIPE)	{¾"}
CP	1211	$4.00	COUPLING, REDUCER (1½X1¼)	
CP	1212	$6.00	2" GALV. COUPLER #47833	{2"}
CP	1213	$5.00	2" GALV. COUPLER #47833	{1½"}
CP	1220	$.79	COUPLING (25.4 MM PIPE)	{1"}
CP	1230	$21.00	COUPLING (63.5 MM PIPE)	{2½"}
CP	1240	$36.00	COUPLINGS (101.6 MM PIPE)	{4"}
CP	1250	$15.00	COUPLINGS (152 MM PIPE)	{6"}
CP	1251	$3.00	PVC COUPLINGS, SIZE 2" #42642	{2"}
CP	1301	$5.00	CABLE CUTTER MODIA 1/1/16" CAP	{2"}
CP	1302	$5.00	1-1/2" GALV. ST. EL. 90DEG. #41472	(1½"}
CP	1303	$5.00	1-1/4" GALV. ST. EL. 9I0 DEG. #41471	(1¼"}
CP	1460	$1.99	* GLUE (PVC-.5 L OR .25 L)	{PT OR ½ PT}
CP	1650	$210.00	HEAD, DRIVE (100 MM PIPE)	{4"}
CP	1655	$105.00	HEAD, DRIVE (100 MM PIPE W/NW ROD BOX)	{4"}
CP	1660	$110.00	HEAD, DRIVE ("BW")	
CP	1670	$120.00	HEAD, DRIVE ("HW")	
CP	1675	$115.00	HEAD, DRIVE ("NW")	
CP	1677	$210.00	** HEAD, DRIVE (PW CASING)	
CP	1883	$63.00	JAWS, 76 MM (PIPE RETRIEVER)	{3"}
CP	1884	$25.00	JAWS, 63.5 MM (PIPE RETRIEVER)	{2½"}
CP	1885	$25.00	JAWS, 100 MM (PIPE RETRIEVER)	{4"}
CP	2071	$2.57	NIPPLES, 4" LENGTH (2")	
CP	2072	$1.93	NIPPLES, 4" LENGTH (1½")	
CP	2073	$1.93	NIPPLES, 4" LENGTH (1¼")	
CP	2074	$.75	NIPPLES, 4" LENGTH (½")	
CP	2076	$1.75	NIPPLES, CLOSE (2")	
CP	2077	$1.21	NIPPLES, CLOSE (1½")	
CVP	2078	$5.00	NIPPLE 3/4" X 2½" LENGTH	{3/4"X2½"}
CP	2080	$1.00	NIPPLES, CLOSE (31.8 MM)	{1¼"}

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
CP	2081	$.46	NIPPLES, CLOSE (½")	
CP	2082	$16.50	NOSE, PIPE RETRIEVER	
CP	2086	$5.00	NIPPLE 1¼" X 2" LENGTH	{1¼"X2"}
CP	2087	$5.00	NIPPLE 1½" X 2" LENGTH	{1½"X2"}
CP	2088	$5.00	NIPPLE 2" CLOSE	{2"}
CP	2089	$5.00	NIPPLE 1" X 2" LENGTH	{1"X2"}
CP	2120	$3.53	PIPE (13 MM, 1 M LONG)	{½", 3'}
CP	2130	$4.28	PIPE (19 MM AUGER-L.M.)	{¾"}
CP	2140	$2.10	PIPE (25.4 MM PVC 3 M LENGTHS-L.M.)	{1", 10'}
CP	2150	$.78	PIPE (PVC 76.2 M L.M.)	{3"}
CP	2155	$50.00	PIPE, SLOPE INDICATOR 76.2 MM- 3 M LONG	{3", 10'}
CP	2156	$15.00	PIPE, SLOPE INDICATOR 76.2 MM- 1.5 M LONG	{3", 5'}
CP	2157	$10.00	PIPE, PVC 2"X10' LENGTH	{2"}
CP	2158	$5.00	PIPE, ELBOW 90 DEGREE 2"	{2"}
CP	2160	$64.25	PIPE, 63.5 MM (1.5 M LENGTHS)	{2½", 5'}
CP	2161	$5.00	PIPE, BUSHING 1½"X2"	{2"X1½"}
CP	2162	$5.00	PIPE, BUSHING 1½"X1¼"	{1½"X1¼"}
CP	2163	$5.00	PIPE, BUSHING 1½"X1¼"	(1½"X1"}
CP	2164	$5.00	3/4"X1/2" BUSHING #47809	{3/4"X1/2"}
CP	2170	$111.00	PIPE, 100 MM (1.5 M LENGTHS)	{4", 5'}
CP	2180	$88.00	** PIPE, 150 MM (0.6 M LENGTHS)	{6", 2'}
CP	2190	$129.00	** PIPE, 150 MM (1.5 M LENGTHS)	{6",5'}
CP	2191	$5.00	2" GALV. PIPE 2' LONG	{2"X2'}
CP	2192	$6.00	2" GALV. PUNION #41520	{2"}
CP	2260	$1.00	* PLUGS (25.4 MM PVC THREADED)	{1"}
CP	2261	$5.00	2" GALV. PLUG #47839	{2"}
CP	2262	$6.00	1-1/2" GALV. PLUG #47838	(1½"}
CP	2264	$5.00	1-1/4" GALV. PLUG #47837	(1¼"}
CP	2265	$2.50	PLUGS 100 MM BRASS PIPE	{4"}
CP	2266	$4.00	1" GALV. PLUG #47805	(1")
CP	2321	$8.00	2"X1-1/2" RED. COUP. #41497	{2"x1½"}

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
CP	2322	$8.00	2"X1-1/4" RED. COUP. #41496	{2"x1¼"}
CP	2323	$8.00	1-1/2"X1" RED COUP. #41495	{1½"x1"}
CP	2324	$8.00	2"X1" RED. COUP. #44231	{2"x1"}
CP	2390	$150.00	RETREAVER, PIPE ("AW" CONN.)	
CP	2935	$45.55	** SHOE, DRIVE ("AW"CASING)	
CP	2940	$46.00	SHOE, DRIVE ("BW"CASING) ***See Photo on Page 49.***	
CP	2955	$58.00	SHOE, DRIVE ("NW"CASING)	
CP	2960	$79.00	SHOE, DRIVE ("HW"CASING)	
CP	2963	$115.00	** SHOE, DRIVE ("PW"CASING)	
CP	3000	$49.00	SHOE, PIPE (63.5 MM) ***See Photo on Page 49.***	{2½"}
CP	3010	$64.00	SHOE, PIPE (101.6 MM)	{4"}
CP	3440	$85.00	"T", "BW" CASING ***See Photo on Page 49.***	
CP	3444	$82.00	"T", "NW" CASING ***See Photo on Page 49.***	
CP	3445	$105.00	"T", "HW" CASING ***See Photo on Page 49.***	
CP	3446	$6.50	"T", 63.5 MM PIPE	{2½"}
CP	3447	$10.00	2" GALV. TEE #47832	{2"}
CP	3448	$10.00	1-1/2 GALV. TEE #47831	{1½"}
CP	3450	$9.65	"T", 101.6 MM PIPE	{4"}
CP	3452	$11.75	"T", 152.4 MM PIPE	{6"}

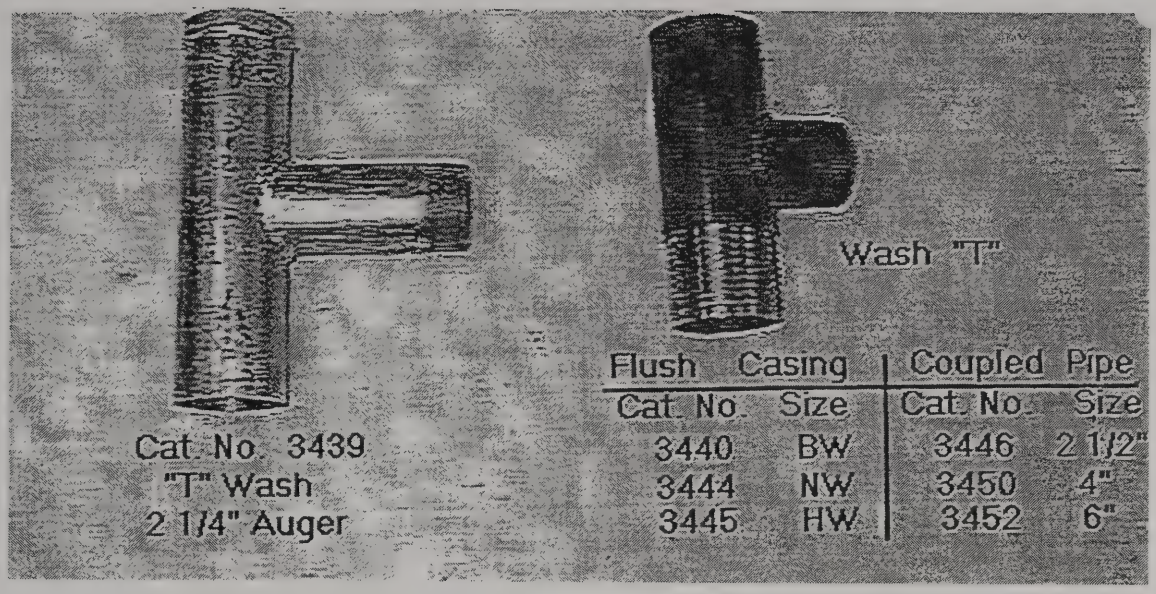


Length	Cat. No.
1'	940
2'	950
5'	960

Length	Cat. No.
1'	912
2'	915
5'	917

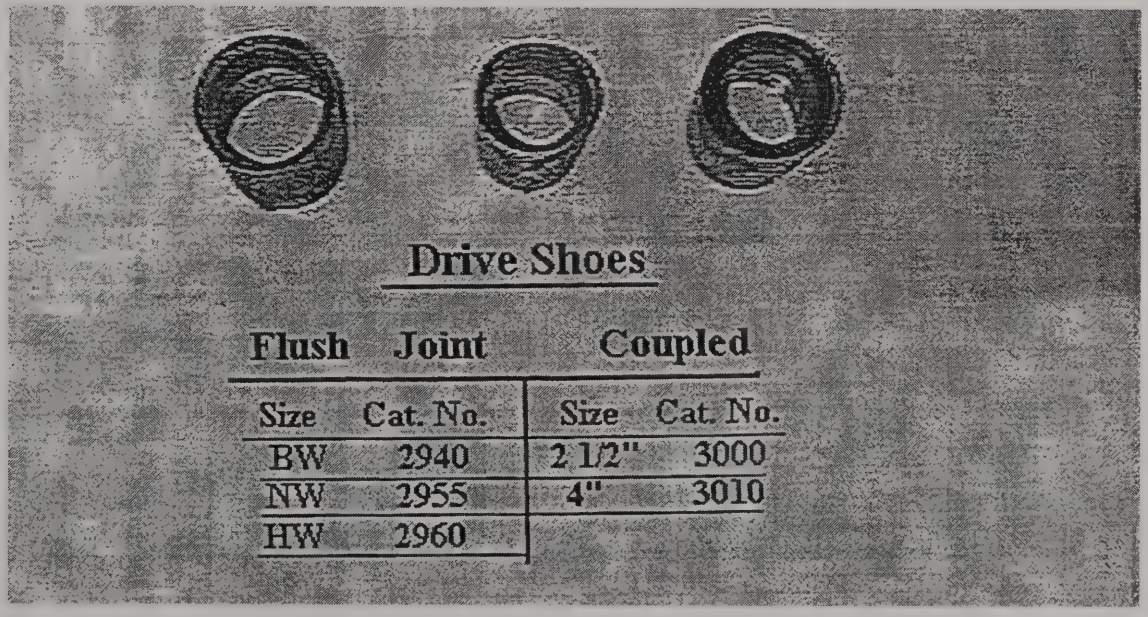
Length	Cat. No.
1'	870
2'	880
5'	890

Photo #18



Flush Casing		Coupled Pipe	
Cat. No.	Size	Cat. No.	Size
3440	BW	3446	2 1/2"
3444	NW	3450	4"
3445	HW	3452	6"

Photo #19



Drive Shoes

Flush Joint		Coupled	
Size	Cat. No.	Size	Cat. No.
BW	2940	2 1/2"	3000
NW	2955	4"	3010
HW	2960		

Photo #20

DIAMOND BITS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
DB	10	$75.00	ADAPTOR, HEAD (108 MM EXP. FOR THIN WALL BIT)	{4¼"}
DB	11	$45.00	ADAPTOR, HEAD FOR 2-1/2 BITS	(2½")
DB	20	$85.00	ADAPTOR, HEAD (158.8 MM EXP. FOR THIN WALL BIT)	{6¼"}
DB	2435	$9.00	RING EXPANDING FOR THIN WALL ADAPTOR	{4¼"}
DB	2437	$12.00	RING EXPANDING THIN WALL ADAPTOR	{6¼"}
DB	4000	$121.00	"AW" CORING SURFACE SET (FINE)	
DB	4005	$127.50	"AW" CORING SURFACE SET (COARSE)	
DB	4010	$150.00	"AW" CORING (IMPREGNATED)	
DB	4015	$135.50	"AXM" CORING SURFACE SET (COARSE)	
DB	4020	$235.00	"AW-34" CORING SURFACE SET (COARSE)	
DB	4025	$190.00	"AW-34" CORING (IMPREGNATED)	
DB	4026	$200.00	"AW-34" CORING (IMP.) HOFFMAN (COPPER) VERY HARD FORMATIONS	
DB	4028	$200.00	"AW-34" CORING (IMP.) HOFFMAN (TAN) HARD ROCK	
DB	4030	$160.00	"BW" CORING SURFACE SET (FINE)	
DB	4035	$165.00	"BW" CORING SURFACE SET (COARSE)	
DB	4038	$250.00	"BW" CORING (IMP.) COPPER HOFFMAN (VERY HARD FORMATIONS)	
DB	4039	$250.00	"BW" CORING (IMP.) HOFFMAN (TAN) VERY HARD FORMATIONS	
DB	4040	$193.00	"BW" CORING (IMPREGNATED)	
DB	4045	$200.00	"BXM" CORING SURFACE SET (COARSE)	
DB	4050	$200.00	"BX" CASING SHOE SURFACE SET (COARSE)	
DB	4055	$200.00	"BX" CASING SHOE (IMPREGNATED)	
DB	4060	$175.00	"BW" CASING SHOE SURFACE SET (COARSE)	
DB	4065	$193.00	"BW" CASING SHOE (IMPREGNATED)	
DB	4070	$215.00	"NW" CORING SURFACE SET (FINE)	
DB	4075	$215.00	"NW" CORING SURFACE SET (COARSE)	
DB	4077	$250.00	"NW" CORING (IMP.) HOFFMAN (TAN) HARD ROCK	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
DB	4078	$250.00	"NW" CORING (IMP.) HOFFMAN (COPPER) VERY HARD FORMATIONS	
DB	4079	$400.00	"NW" CORING (IMP.) CHRISTENSEN (BLACK) EXTREMELY HARD ROCK	
DB	4080	$244.00	"NW" CORING (IMPREGNATED)	
DB	4081	$278.00	NWD-4 DIAMOND BIT (COPPER)	
DB	4085	$215.00	"NXM" CORING SURFACE SET (COARSE)	
DB	4090	$200.00	"NX" CASING SHOE SURFACE SET (COARSE)	
DB	4095	$200.00	"NX" CASING SHOE (IMPREGNATED)	
DB	4100	$245.00	"NW" CASING SHOE SURFACE SET (COARSE)	
DB	4105	$250.00	"NW" CASING SHOE (IMPREGNATED)	
DB	4110	$290.00	"NWD-3" CORING SURFACE SET (COARSE) (CHRISTENSEN)	
DB	4115	$250.00	"NWD-4" CORING SURFACE SET (COARSE) (CHRISTENSEN)	
DB	4116	$198.00	"NWD-4" CORING SURFACE SET (FINE) (CHRISTENSEN)	
DB	4119	$220.00	"NWD-4" CORING (IMP.) CHRISTENSEN (TAN) HARD ROCK	
DB	4120	$350.00	"NWD-4" CORING (IMPREGNATED) (CHRISTENSEN)	
DB	4125	$456.00	"NQ-2" CORING (IMPREGNATED) (WIRELINE)	
DB	4130	$285.00	"HW" CORING SURFACE SET (FINE)	
DB	4135	$300.00	"HW" CORING SURFACE SET (COARSE)	
DB	4139	$300.00	"HW" CORING (IMP.) HOFFMAN VERY HARD FORMATIONS	
DB	4140	$295.00	"HW" CORING (IMPREGNATED)	
DB	4141	$300.00	"HW" CORING (IMP.) HOFFMAN (TAN) HARD ROCK	
B	4145	$275.00	"HW" CASING SHOE SURFACE SET (COARSE)	
DB	4150	$290.00	"HW" CASING SHOE (IMPREGNATED)	
DB	4151	$300.00	"HWCS" CASING SHOE (IMP.) HOFFMAN (COPPER HARD ROCK)	
DB	4152	$300.00	"HWCS" CASING SHOE (IMP.) HOFFMAN (TAN) HARD ROCK	

DRILLING TOOLS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
DT	70	$490.00	AUGER, JET 92 MM	{3⅝"}
DT	80	$480.00	AUGER, JET (92 MM WITH CALYX)	{3⅝"}
DT	90	$95.00	AUGER, JET (79 MM)	{3⅛"}
DT	110	$84.00	BAR, JAR (63.5 MM DOUBLE EXTRA HEAVY)	{2½"}
DT	320	$9.00	BENTONITE (QUICK-GEL-VOLCLAY-PWD/ GRAN) 23 KG. BAG	{50 LB}
DT	321	$12.00	BENTONITE-BENSEAL (50# BAG)	{50 LB}
DT	640	$15.00	BOLTS, EYE (ACKER HAMMER 136.2 KG)	{300 LB}
DT	650	$15.00	BOLTS, EYE (S&H HAMMER 136.2 KG)	{300 LB}
DT	680	$130.00	BOULDER BUSTER (57 MM)	{2¼"}
DT	690	$156.25	BOULDER BUSTER (88.9 MM)	{3½"}
DT	1286	$100.00	CABLE CUTTER MODIA 1/1/16" CAP	
DT	1370	$1.41	FLAGGING (RED ROLLS)	
DT	1380	$1.41	* FLAGGING (YELLOW ROLLS)	
DT	1416	$30.00	**SAND CONTENT KIT (MUD DRILLING) ***See Photo on Page 93.***	
DT	1417	$300.00	**MUD DESANDER, (MUD DRILLING) ***See Photo on Page 93.***	
DT	1418	$30.00	**MARSH CUP AND FUNNEL (MUD DRILLING) ***See Photo on Page 93.***	
DT	1421	$35.00	**MUD BALANCE POCKET SIZE (MUD DRILLING) ***See Photo on Page 93.***	
DT	1430	$38.50	GAUGE (MINERAL FILLED)	
DT	1575	$275.00	HAMMER (64 KG)	{140 LB}
DT	1580	$450.00	HAMMER (136.2 KG)	{300 LB}
DT	1734	$5.67	HOLDER, CRAYON	
DT	1740	$65.00	HOOK, ROD ("AW") ***See Photo on Page 57.***	
DT	1750	$75.00	HOOK, ROD ("NW")	
DT	1755	$22.00	HOOK, SAFETY	
DT	1890	$22.80	JUGS, WATER (7.6 L)	{2 GAL}
DT	1900	$8.40	KEIL (BOX)	
DT	1910	$3.19	LATCH KIT (SAFETY HOOK) 3 TON, LARGE HOOK	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
DT	1912	$3.19	LATCH KIT (SAFETY HOOK) 3 TON, SMALL HOOK	
DT	1920	$3.20	LEVEL (CARPENTER'S 600 MM)	{24"}
DT	2000	$70.00	LIFTER, ROD AW (CLOSED) ***See Photo on Page 57.***	
DT	2010	$56.00	LIFTER, ROD "AW" (OPEN) ***See Photo on Page 57.***	
DT	2020	$113.00	LIFTER, ROD "NW" (CLOSED) ***See Photo on Page 57.***	
DT	2030	$110.00	LIFTER, ROD "NW" (OPEN)	
DT	2070	$45.00	LUBRICANT (6.8 KG PAIL)	{15 LB}
DT	2095	$10.00	PACKING-SIDEFEED SWIVEL LIGHT DUTY	
DT	2270	$115.00	PLUG HOIST ("AW" CONN.)	
DT	2280	$20.00	* POINTS (POIN JAR 25.4 MM DIA. X 1 M LONG)	{1",3'}
DT	2299	$250.00	BLUE ANGEL WATER PUMP	
DT	2400	$1.00	RING, "O" (N&N SWIVEL)	
DT	2410	$38.00	RING, DRIVE (63.5 MM JAR BAR)	{2½"}
DT	2415	$25.00	RING, DRIVE 63.5 MM MODIFIED JAR BAR	{2½"}
DT	2420	$48.00	RING, ROD ("AW")	
DT	2430	$69.00	RING, ROD ("NW") ***See Photo on Page 57.***	
DT	2630	$3.06	RULERS (2 M WOOD)	{6'}
DT	2631	$8.55	RULERS, METRIC (2 M)	
DT	2820	$20.00	* SHANK (PION JAR IMPACT)	
DT	3420	$450.00	SWIVEL, WATER (KING TYPE)	
DT	3430	$175.00	SWIVEL, WATER (PLAIN TYPE)	
DT	3435	$309.50	SWIVEL, WATER-SIDE FEED ***See Photo on Page 58.***	
DT	3456	$200.00	FABRICATED SHEET METAL (MUD TANK)	
DT	3470	$133.70	TAP (FISHING "AW" COUP. I.D.)	
DT	3480	$132.95	TAP (FISHING "AW" COUP. O.D.)	
DT	3490	$133.70	TAP (FISHING "AW" ROD I.D.)	
DT	3500	$138.40	TAP (FISHING "AW" ROD O.D.)	
DT	3510	$78.00	TAP (FISHING "NW" COUP. I.D.)	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
DT	3520	$90.00	TAP (FISHING "NW" COUP. O.D.)	
DT	3530	$169.55	TAP (FISHING "NW" DRILL ROD I.D.)	
DT	3540	$242.70	TAP (FISHING "NW" DRILL ROD O.D.)	
DT	3560	$.79	TAPE (PLASTIC)	
DT	3710	$1.52	TUBE, LEXAN (FOR "Z" GAUGE L.M.)	
DT	3718	$205.00	UNIVERSAL (40 MM HEX SOCKET TO 40 MM HEX SOCKET) 20 MG	{1⅝" TO 1⅝"}
DT	3721	$15.00	VALVE, CHECK (BRASS 25.4 MM)	{1"}
DT	3730	$13.00	VALVE (BALL COCK 25.4 MM)	{1"}
DT	3731	$20.00	1-1/2" 3 WAY BRONZE BALL VALVE	{1½"}
DT	3732	$20.00	1" 3 WAY BRONZE BALL VALVE	{1"}
DT	3735	$18.00	VALVE (BALL COCK 38.1 MM)	{1½"}
DT	3770	$100.00	VISE (PIPE 100 MM CAPACITY)	{4"}
DT	3880	$14.73	WRENCH, CHUCK (S&H 19.1 MM)	{¾"}

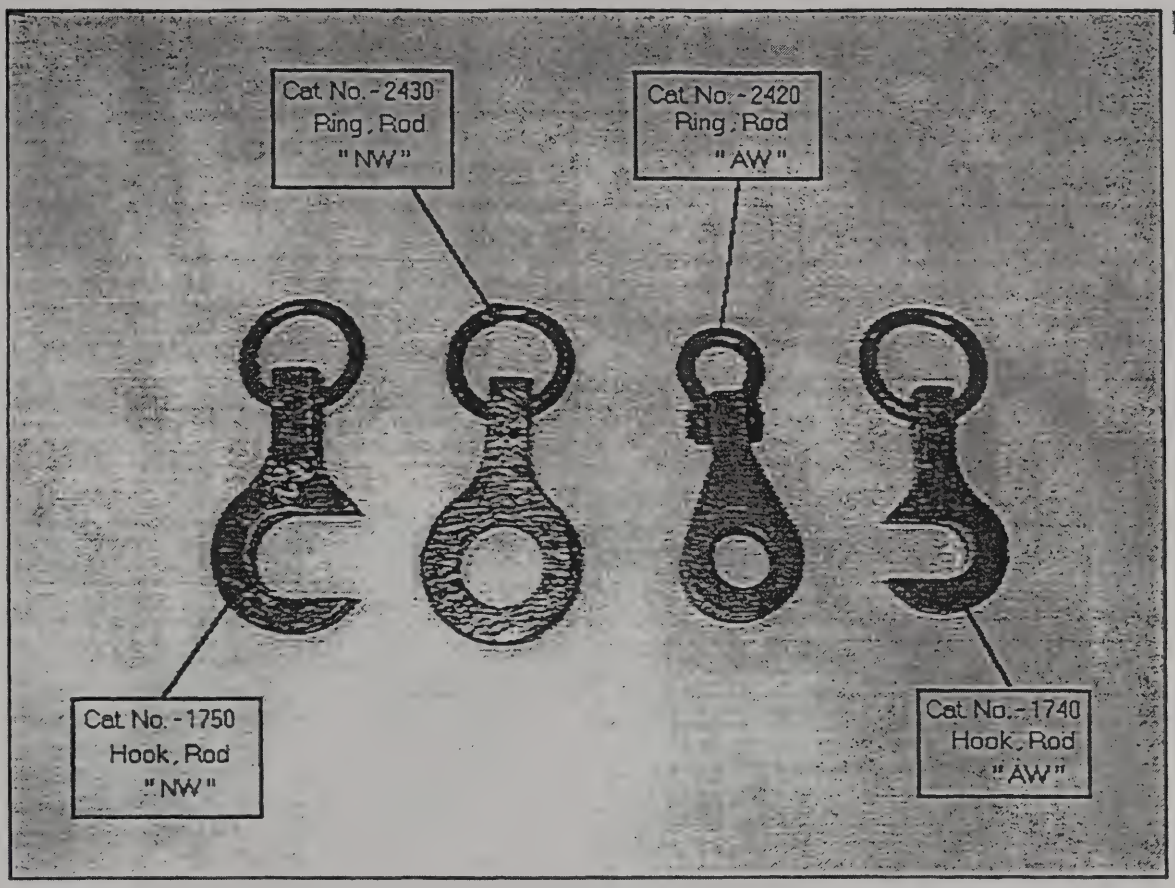


Photo #21

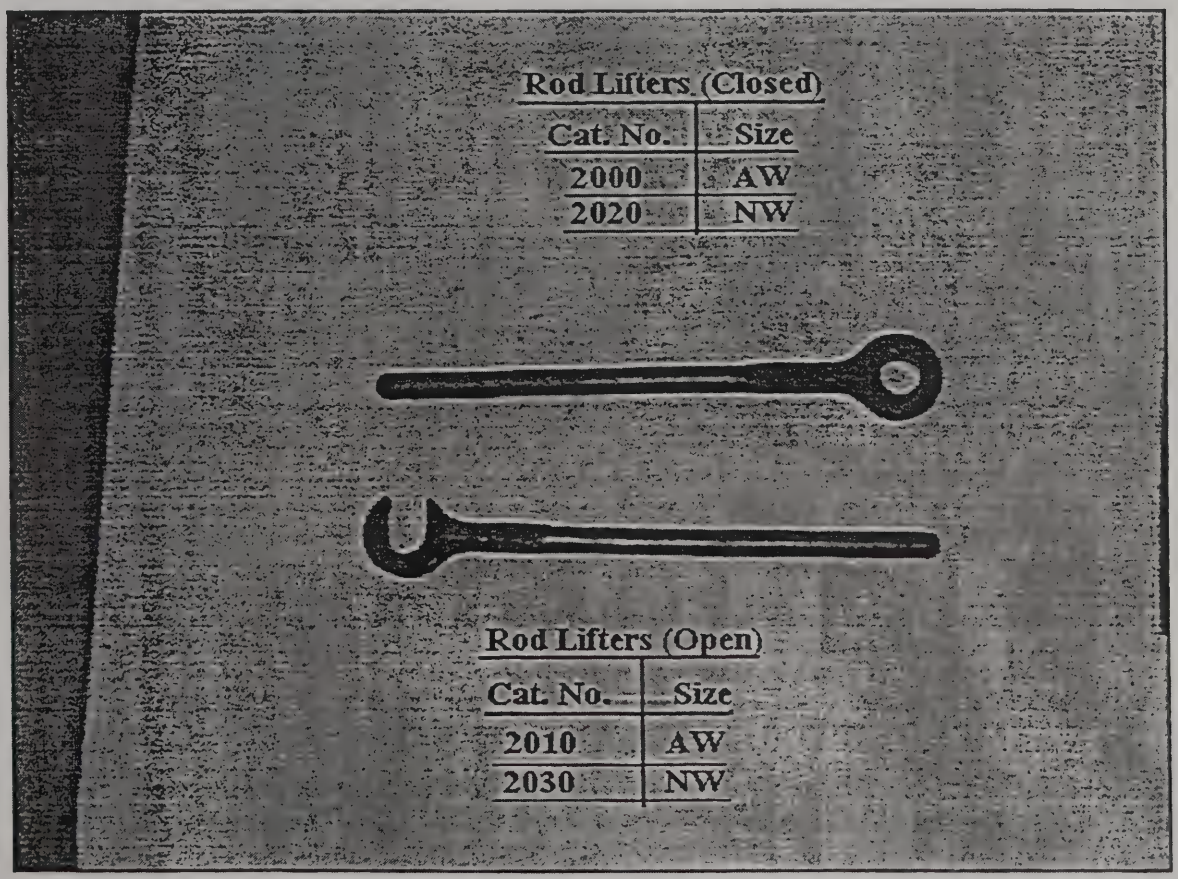


Photo #22

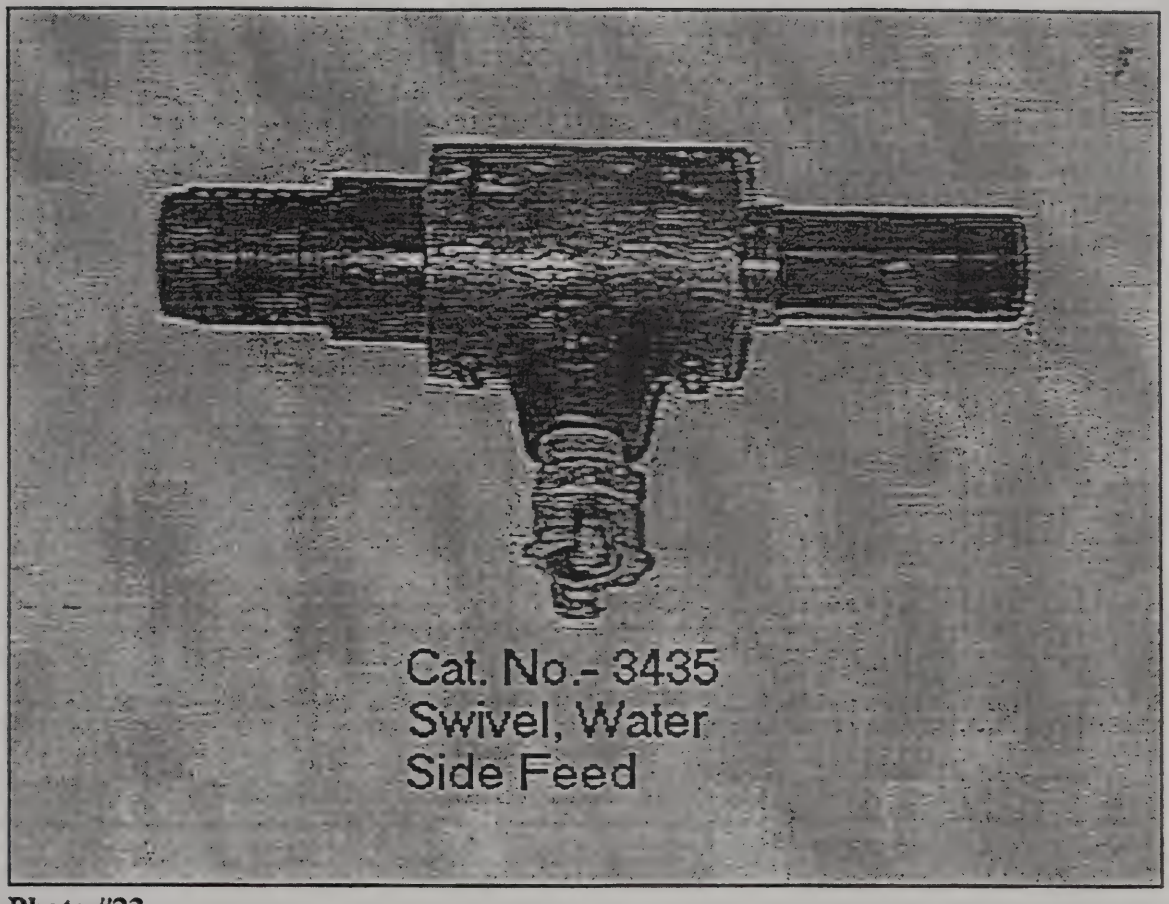


Photo #23

HOSES

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
HO	1010	$3.00	CLAMPS (25.4 MM DISCHARGE HOSE BOLTED) ***See Photo on Page 62.***	{1"}
HO	1020	$.49	CLAMPS (25.4 MM PLASTIC HOSE)	{1"}
HO	1021	$1.00	SAFETY CLIPS AIR HOSE SNAP 3LX83	{1"}
HO	1060	$3.00	CONNECTION (19 MM THREADED MALE SNAP ON)	{¾"}
HO	1080	$3.00	CONNECTION (25.4 MM THREADED MALE SNAP ON) ***See Photo on Page 62.***	{1"}
HO	1090	$3.00	CONNECTION (25.4 MM THREADED FEMALE SNAP ON) ***See Photo on Page 62.***	{1"}
HO	1120	$2.65	CONNECTION (SNAP ON 25.4 MM HOSE) ***See Photo on Page 62.***	{1"}
HO	1123	$3.82	CONNECTION, QUICK (32 MM FEMALE THREAD) "ADAPTOR A"	{1¼"}
HO	1124	$8.36	CONNECTION, QUICK (32 MM FEMALE THREAD) "COUPLER D"	{1¼"}
HO	1127	$8.38	CONNECTION, QUICK (38.1 MM STAB) "COUPLER C"	{1½"}
HO	1128	$8.38	CONNECTION, QUICK (38.1 MM FEMALE THREAD) "COUPLER D" ***See Photo on Page 63.***	{1½"}
HO	1129	$4.88	CONNECTION, QUICK (38.1 MM MALE THREAD) "ADAPTER F"	{1½"}
HO	1131	$3.60	CONNECTION, QUICK (38.1 MM FEMALE THREAD) "ADAPTER A"	{1½"}
HO	1133	$5.72	CONNECTION, QUICK (50.8 MM MALE THREAD) "ADAPTER F"	{ 2" }
HO	1134	$4.38	CONNECTION, QUICK (50.8 MM FEMALE THREAD) "ADAPTER A" ***See Photo on Page 63.***	{2"}
HO	1135	$9.04	CONNECTION, QUICK (50.8 MM FEMALE THREAD) "COUPLER D"	{2"}
HO	1300	$15.00	DISCONNECT (QUICK HYD. PARKER-HANNIFIN)	
HO	1450	$1.00	GASKETS (SUCTION HOSE 38 MM NEOPRENE)	{1½"}
HO	1451	$1.00	GASKETS (QUICK CONNECT 38.1 MM NEOPRENE)	{1½"}
HO	1452	$1.00	GASKETS (QUICK CONNECT 50.8 MM NEOPRENE)	{2"}
HO	1453	$1.00	GASKETS (SUCTION 50 MM NEOPRENE)	{2"}

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
HO	1480	$1.00	GROMMETS (25 MM AIR HOSE FITTINGS) ***See Photo on Page 62.***	{1"}
HO	1760	$.58	HOSE (25.4 MM BRAIDED AIR-L.M.)	{1"}
HO	1765	$75.50	HOSE (32 MM AIR C.M.E.) 3 M LENGTH	{1¼", 10'}
HO	1770	$65.00	HOSE (38 MM SUCTION 6 M LENGTHS) PLASTIC	{1½", 20'}
HO	1772	$59.00	HOSE (38 MM SUCTION 6 M LENGTHS)-RUBBER	{1½", 20'}
HO	1775	$45.00	HOSE, 50 MM SUCTION (MOYNO PUMP)	{2"}
HO	3755	$17.79	VALVE, FOOT (38.1 MM-BRASS)	{1½"}
HO	3763	$37.99	VALVE, FOOT (50.8 MM BRASS)	{2"}

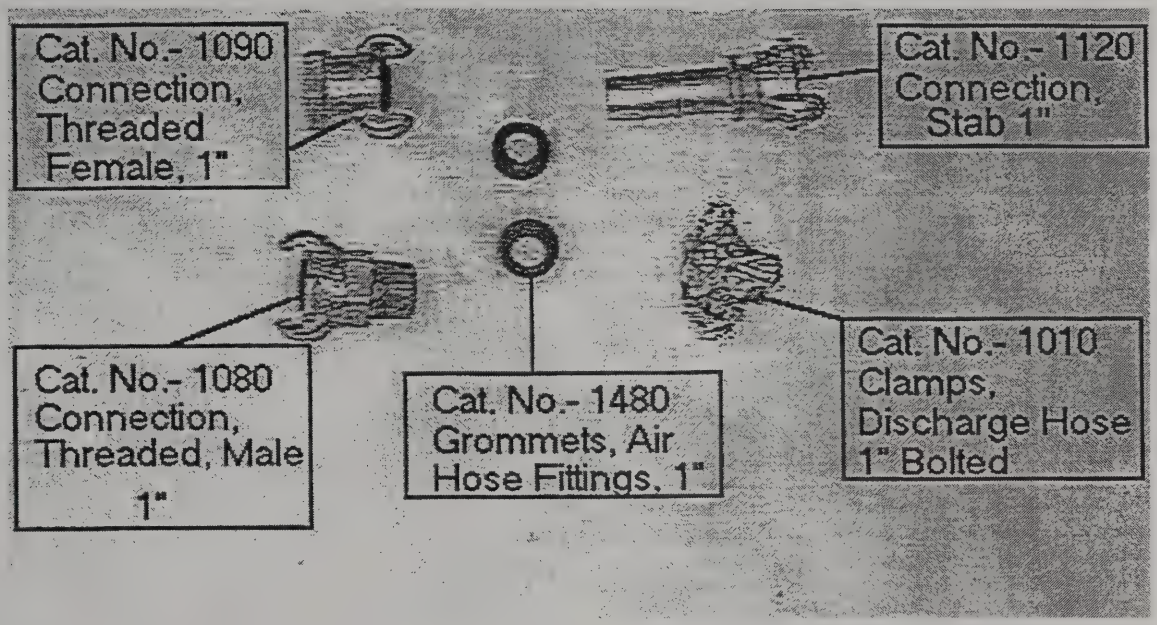

Cat. No.- 1090
Connection,
Threaded
Female, 1"
Cat. No.- 1120
Connection,
Stab 1"
Cat. No.- 1080
Connection,
Threaded, Male
1"
Cat. No.- 1480
Grommets, Air
Hose Fittings, 1"
Cat. No.- 1010
Clamps,
Discharge Hose
1" Bolted

Photo #24

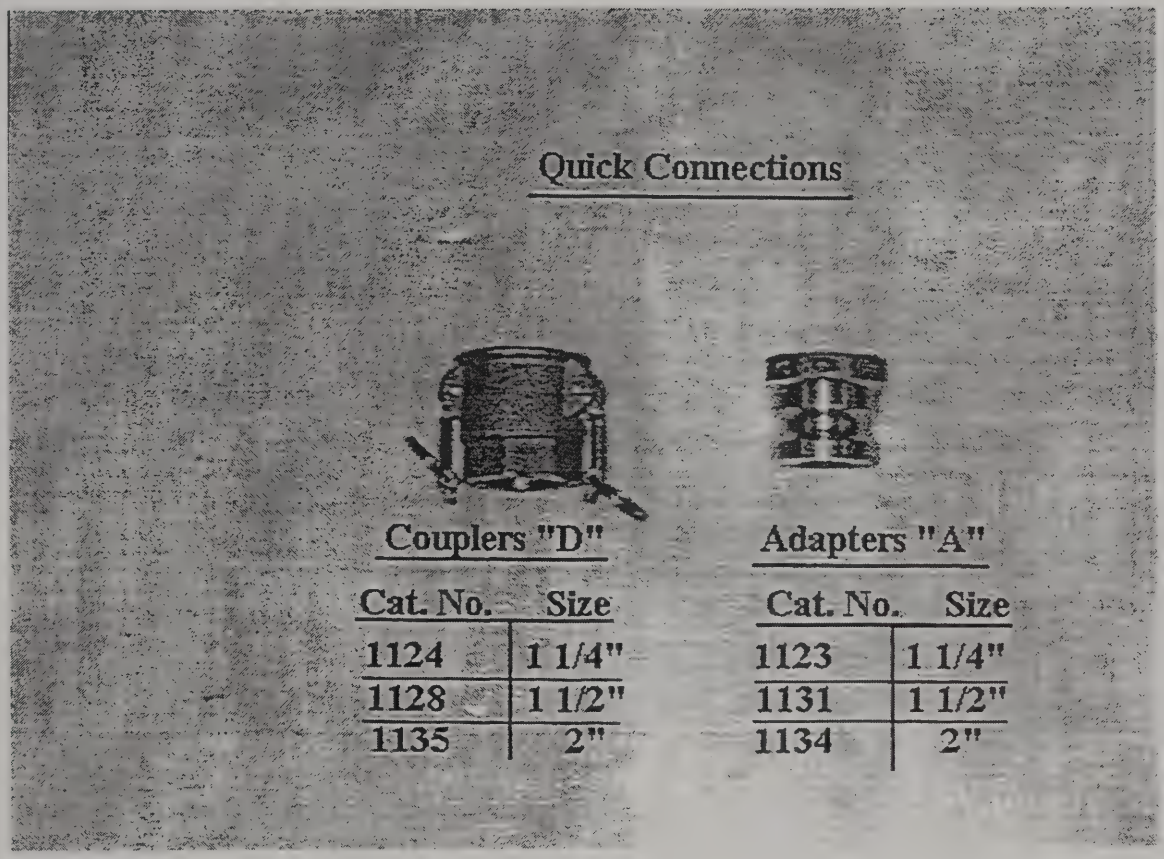

Quick Connections
Couplers "D"
Cat. No. Size
1124 1 1/4"
1128 1 1/2"
1135 2"
Adapters "A"
Cat. No. Size
1123 1 1/4"
1131 1 1/2"
1134 2"

Photo #25

HAND TOOLS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
HT	40	$39.00	AUGER, IWAN 150 MM	{6"}
HT	50	$35.00	AUGER, IWAN 100 MM	{4"}
HT	55	$40.00	AUGER, IWAN 75 MM	{3"}
HT	60	$15.00	AUGER, IWAN 50 MM	{2"}
HT	100	$10.05	AXES, SINGLE BIT	
HT	120	$3.22	BAR, PINCH (600 MM)	{24"}
HT	121	$25.00	BAR PRY 141/2" 1C050	
HT	125	$40.00	BAR, POLE (2 M)	{6'}
HT	130	$48.69	BAR, POLE (2.4 M)	{8'}
HT	295	$25.00	BEARING, SIDE FEED WATER SWIVELID1, 96OD3.149THICK.628	
HT	330	$47.25	BINDER (9.5 MM CHAIN)	{⅜"}
HT	620	$35.00	BLOCK, ROPE (SNATCH 150 MM)	{6"}
HT	622	$136.98	BLOCK, ROPE (SNATCH 200 MM)	{8"}
HT	730	$2.04	BRUSHES (WIRE)	
HT	750	$30.00	CABLES, JUMPER	
HT	751	$40.00	CABLES, JUMPER 16' LENGTH	{16'}
HT	760	$15.38	CANS (GAS-20 L JUST RITE SAFETY)	{5 GALLON}
HT	765	$3.19	CANS, OIL (PUSH BOTTOM OILERS 0.5 L)	{1 PT}
HT	970	$10.00	CHAIN (0.6 M CHAIN WRENCH)	{24"}
HT	980	$28.44	CHAIN, LOGGING (9.5 MM- 5 M LONG W/HOOKS)	{⅜", 16'}
HT	990	$100.00	CHAIN, TIE DOWN (DOZER ONLY)	
HT	1030	$2.50	CLEANER (HAND 0.45 KG CANS-CREAM)	{1 LB}
HT	1290	$14.57	* DIGGER (POST HOLE-LONG HANDLES)	
HT	1419	$14.79	FUNNEL (9.5 L CAPACITY)	{10 QT}
HT	1511	$150.00	ANVIL, IMPACT NW ROD PIN FOR CME AUTO HAMMERS ***See Photo on Page 91.***	NW
HT	1512	$150.00	ANVIL, IMPACT AW ROD PIN FOR CME AUTO HAMMERS ***See Photo on Page 91.***	AW
HT	1570	$8.04	HAMMER, SLEDGE (3.6 KG)	{8 LB}
HT	1590	$5.00	HANDLE, AXE SINGLE BIT	
HT	1600	$5.00	HANDLE, PICK	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
HT	1610	$5.00	HANDLE, SLEDGE HAMMER	
HT	1620	$2.00	HASP (100 MM)	{4"}
HT	1700	$89.90	HEATER (SPACE-SALAMANDER)	
HT	1701	$15.00	CORD EXTENSION 50' LENGTH	50'
HT	1702	$189.00	HEATER, OIL-FIRED	
HT	1720	$.40	HITCHPIN, HAIRPIN (3 MM X 65 MM)	{⅛" X 2-9/16"}
HT	1730	$.82	HITCHPIN, HAIRPIN (5 MM X 83 MM)	{3/16" X 3¼"}
HT	1780	$20.00	HOSE (2.4 M FOR PROPANE TANKS)	{8'}
HT	1810	$8.25	JAWS (HEEL 350 MM W/PINS)	{14"}
HT	1820	$18.16	JAWS (HOOK 350 MM)	{14"}
HT	1830	$8.25	JAWS (HEEL 450 MM W/PINS)	{18"}
HT	1840	$18.16	JAWS (HOOK 450 MM)	{18"}
HT	1850	$8.25	JAWS (HEEL 600 MM W/PINS)	{24"}
HT	1860	$18.16	JAWS (HOOK 600 MM)	{24"}
HT	1870	$15.00	JAWS (HEEL 915 MM W/PINS)	{36"}
HT	1880	$8.35	JAWS (HOOK 915 MM)	{36"}
HT	1881	$10.00	JAWS, FOR RIGID PIPE VISE (3 MM - 100 MM)	{⅛", 4"}
HT	2060	$3.00	LOCKS (PADLOCK KEYED ALIKE)	
HT	2065	$10.00	LOCKS, OAR (PR)	
HT	2083	$4.50	NUT, 300 MM PIPE WRENCH	{12"}
HT	2084	$3.00	NUT, 450 MM PIPE WRENCH	{18"}
HT	2085	$31.50	NUT, 600 MM PIPE WRENCH	{24"}
HT	2090	$17.84	OARS (2 M PAIR)	{6½'}
HT	2105	$8.89	PICK	
HT	2689	$90.00	SAMPLER 2"X24" AW. CONN. ***See Photo on Page 85***	{2"X24"}
HT	2770	$7.83	SAW (BOW 0.6 M)	{24"}
HT	2780	$15.00	SAW (CARPENTER)	
HT	2830	$25.13	SHEARS (LOPPING)	
HT	3040	$10.00	SHOVEL, LONG HANDLE ROUND POINT	
HT	3050	$10.00	SHOVEL, LONG HANDLE SQUARE POINT	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
HT	3060	$10.00	SHOVEL, SHORT HANDLE ROUND POINT	
HT	3070	$10.00	SHOVEL, SHORT HANDLE SQUARE POINT	
HT	3109	$15.00	SOCKET,1-1/4", 3/4" DRIVE	{1¼"}
HT	3114	$1.80	SPRINGS, 450 MM PIPE WRENCH (SETS)	{18"}
HT	3115	$1.90	SPRINGS, 600 MM PIPE WRENCH (SETS)	{4"}
HT	3160	$.50	* STAKES (25 MM X 25 MM X 1.2 M)	{1" X 1" X 48"}
HT	3190	$.20	STAKES, WIRE (600 M)	{2'}
HT	3205	$5.00	STRAP, SAFETY (GAS CAN)	
HT	3455	$20.00	TANK, PROPANE (9 KG)	{20 LB}
HT	3555	$50.00	LINEAR 100' TAPE MEASURING M1706	
HT	3559	$4.00	TAPE, TEFLON	
HT	3570	$45.50	TARP (PLASTIC 2.4 M X 3 M)	{8' X 10'}
HT	3575	$105.00	TARP, TRUCK (4.3 M X 4.9 M)	{14' X 16'}
HT	3580	$146.25	TORCH (PROPANE COMPLETE)	
HT	3740	$15.95	VALVE, DEMAND (PROPANE)	
HT	3810	$22.00	WRENCH (CHAIN 300 MM)	{12"}
HT	3820	$42.09	WRENCH (CHAIN 450 MM)	{18"}
HT	3830	$40.00	WRENCH (CHAIN 600 MM)	{24"}
HT	3840	$101.48	WRENCH (CHAIN 1 M)	{36"}
HT	3890	$8.69	WRENCH, 200 MM PIPE	{8"}
HT	3900	$12.80	WRENCH, 350 MM PIPE	{14"}
HT	3910	$19.75	WRENCH, 450 MM PIPE	{18"}
HT	3920	$31.50	WRENCH, 600 MM PIPE	{24"}
HT	3930	$61.75	WRENCH, 1 M PIPE	{36"}
HT	590	$.65	BLADES, HACKSAW 305 MM (18,24,32 TEETH PER- 25 MM)	{12"}
HT	720	$38.19	BOX (TOOL 0.6 M)	{24"}
HT	1001	$1.63	CHISEL (6 MM)	{¼"}
HT	1002	$2.36	CHISEL (9 MM)	{5/16"}
HT	1003	$5.00	CHISEL (13 MM)	{½"}
HT	1004	$5.56	CHISEL (16 MM)	{⅝"}

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
HT	1005	$9.04	CHISEL (19 MM)	{¾"}
HT	1006	$7.00	CHISEL (13 MM EXTRA LONG)	{½"}
HT	1007	$5.00	CHISEL (19 MM EXTRA LONG)	{¾"}
HT	1008	$3.50	CHISEL (22 MM)	{⅞"}
HT	1009	$5.00	CHISEL (25.4 MM)	{1"}
HT	1310	$4.00	FILE, 200 MM (3 CORNERED)	{8"}
HT	1312	$6.00	FILE, 200 MM (3 CORNERED-SMOOTH)	{8"}
HT	1318	$3.98	FILE, 200 MM (SQUARE-SMOOTH)	{8"}
HT	1320	$10.00	FILE, 300 MM (FLAT BASTARD)	{12"}
HT	1344	$10.00	FILE (HALF ROUND 300 MM BASTARD)	{12"}
HT	1350	$8.00	FILE, 300 MM (ROUND BASTARD)	{12"}
HT	1470	$5.56	GREASE (CARTRIDGE)	
HT	1490	$30.49	GUN, GREASE (LEVER HANDLE)	
HT	1500	$10.00	HACKSAW (FRAME)	
HT	1524	$6.99	HAMMER, RUBBER	
HT	1530	$7.49	HAMMER (DRILLER-1.4 KG)	{3 LB}
HT	1550	$8.00	HAMMER, BALL PEIN (0.2 KG)	{16 OZ}
HT	2110	$10.00	PIN (DRIFT 300 MM LONG)	{12"}
HT	2200	$6.63	PLIERS (NEEDLE NOSE)	
HT	2210	$8.00	PLIERS (SIDE CUTTER)	
HT	2222	$8.00	PLIERS (SLIP JOINT 200 MM)	{8"}
HT	2240	$6.25	PLIERS (VISE GRIP 250 MM)	{10"}
HT	2250	$10.00	PLIERS (WATER PUMP 250 MM)	{10"}
HT	2300	$4.50	PUNCH, CENTER	
HT	2310	$4.84	PUNCH, DRIFT PIN P-3	
HT	2312	$3.89	PUNCH, DRIFT PIN 9.5 MM X 4.8 MM	{⅜", 3/16"}
HT	2315	$4.65	PUNCH, DRIFT PIN 11.1 MM X 5.6 MM	{7/16" X 7/32"}
HT	2320	$3.75	PUNCH, DRIFT PIN P-5	
HT	2802	$5.00	SCREWDRIVER, 100 MM BLADE	{4"}
HT	2804	$5.00	SCREWDRIVER, 150 MM BLADE	{6"}
HT	2805	$3.00	SCREWDRIVER (CABINET TYPE)	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
HT	2806	$10.00	SCREWDRIVER, 200 MM BLADE	{8"}
HT	2812	$3.00	SCREWDRIVER, PHILIPS 2 PT. 25 MM SHORT	{1"}
HT	2814	$1.36	SCREWDRIVER, PHILIPS 2 PT. 100 MM SHORT	{4"}
HT	3075	$2.60	SOCKET, ⅜", ½" DRIVE	
HT	3076	$2.60	SOCKET, 7/16", ½" DRIVE	
HT	3077	$2.60	SOCKET, ½", ½" DRIVE	
HT	3078	$2.60	SOCKET, 9/16", ½" DRIVE	
HT	3079	$2.60	SOCKET, ⅝", ½" DRIVE	
HT	3080	$2.95	SOCKET, ¾" SPARK PLUG ½" DRIVE	
HT	3081	$2.60	SOCKET, ¾', ½' DRIVE	
HT	3090	$8.00	SOCKET, ⅞" SPARK PLUG ½" DRIVE	
HT	3100	$8.00	SOCKET, 13/16" SPARK PLUG ½" DRIVE	
HT	3102	$5.05	SOCKET, 1" SPARK PLUG ½" DRIVE	
HT	3104	$5.85	SOCKET, 1-1/16" SPARK PLUG ½" DRIVE	
HT	3106	$5.85	SOCKET, 1⅛" SPARK PLUG ½" DRIVE	
HT	3108	$5.31	SOCKET, 1⅛' ¾' DRIVE	
HT	3790	$15.00	WRENCH, ALLEN (SET)	
HT	3800	$2.10	WRENCH, ALLEN (¼")	
HT	3850	$6.25	WRENCH (CRESCENT 150 MM)	{6"}
HT	3860	$9.00	WRENCH (CRESCENT 200 MM)	{8"}
HT	3870	$12.70	WRENCH (CRESCENT 300 MM)	{12"}
HT	3936	$4.75	WRENCH, OPEN END BOX COMBO (¼")	
HT	3937	$11.60	WRENCH, OPEN END BOX COMBO (5/16")	
HT	3938	$5.00	WRENCH, OPEN END BOX COMBO (⅜")	
HT	3939	$6.19	WRENCH, OPEN END BOX COMBO (7/16")	
HT	3940	$5.40	WRENCH, OPEN END BOX COMBO (½")	
HT	3950	$5.85	WRENCH, OPEN END BOX COMBO (9/16")	
HT	3951	$7.30	WRENCH, OPEN END BOX COMBO (⅝")	
HT	3952	$7.10	WRENCH, OPEN END BOX COMBO (11/16")	
HT	3953	$8.65	WRENCH, OPEN BOX COMBO (¾")	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
HT	3954	$9.98	WRENCH, OPEN END BOX COMBO (⅞")	
HT	3960	$12.59	WRENCH, OPEN END BOX COMBO (15/16")	
HT	3961	$13.10	WRENCH, OPEN END BOX (1")	
HT	3962	$16.20	WRENCH, OPEN END BOX (1-1/16")	
HT	3963	$18.70	WRENCH, OPEN END BOX (1⅛")	
HT	3964	$26.65	WRENCH, OPEN END BOX (1¼")	
HT	3980	$14.35	WRENCH, RATCHET (½" DRIVE)	
HT	3985	$37.70	WRENCH, RATCHET (¾" DRIVE)	
HT	3990	$60.57	WRENCH, SOCKET SET (½" DRIVE)	

PAVEMENT BITS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
PB	4160	$70.00	2½" THIN WALL BITS SURFACE SET (COARSE)	
PB	4163	$125.00	4¼" THIN WALL BITS SURFACE SET (COARSE)	
PB	4165	$128.00	4¼" THIN WALL BITS (IMPREGNATED)	
PB	4170	$200.00	6¼" THIN WALL BITS (IMPREGNATED)	
PB	4175	$181.00	6¼" THIN WALL BITS SURFACE SET (COARSE)	

PERSONAL ITEMS

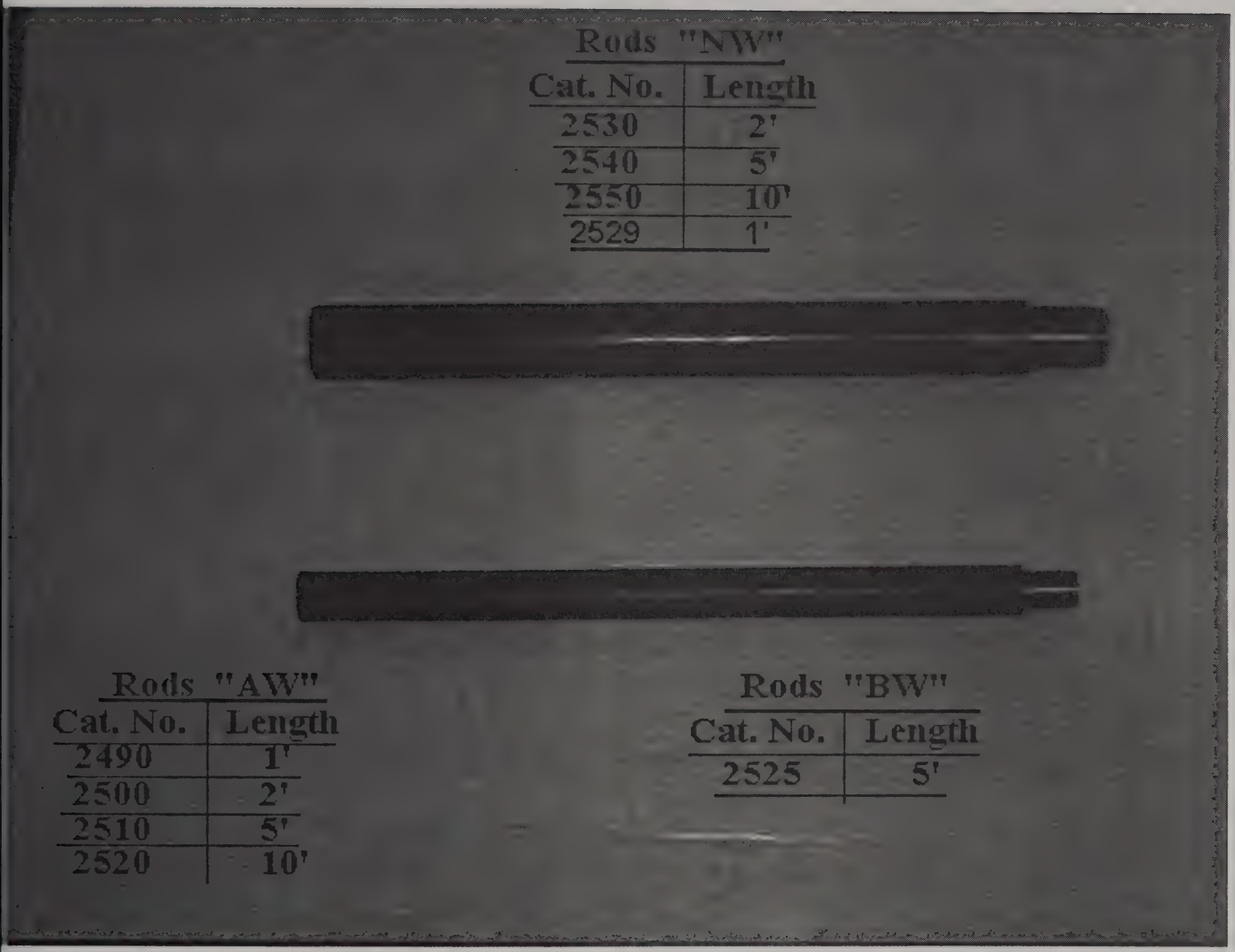
GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
PI	660	$18.57	*** BOOTS (HIP) SIZE 6	
PI	661	$18.57	*** BOOTS (HIP) SIZE 7	
PI	662	$18.57	*** BOOTS (HIP) SIZE 8	
PI	663	$18.57	*** BOOTS (HIP) SIZE 9	
PI	664	$18.57	*** BOOTS (HIP) SIZE 10	
PI	665	$18.57	*** BOOTS (HIP) SIZE 11	
PI	666	$18.57	*** BOOTS (HIP) SIZE 12	
PI	667	$18.57	*** BOOTS (HIP) SIZE 13	
PI	668	$18.57	*** BOOTS (HIP) SIZE 14	
PI	670	$9.04	*** BOOTS (KNEE HIGH) SIZE 6	
PI	671	$9.25	*** BOOTS (KNEE HIGH) SIZE 7	
PI	672	$9.25	*** BOOTS (KNEE HIGH) SIZE 8	
PI	673	$9.25	*** BOOTS (KNEE HIGH) SIZE 9	
PI	674	$9.25	*** BOOTS (KNEE HIGH) SIZE 10	
PI	675	$9.25	*** BOOTS (KNEE HIGH) SIZE 11	
PI	676	$9.25	*** BOOTS (KNEE HIGH) SIZE 12	
PI	677	$9.25	*** BOOTS (KNEE HIGH) SIZE 13	
PI	678	$9.25	*** BOOTS (KNEE HIGH) SIZE 14	
PI	679	$20.00	COVERALLS, ORANGE, VAR. SIZES	
PI	1455	$3.00	*** GLASSES (SAFETY)	
PI	1456	$4.00	GLOVES, LEATHER	
PI	1458	$4.00	GLOVES, INSULATED	
PI	1459	$2.00	GLOVES, RUBBER	
PI	1715	$9.07	*** HELMET (SAFETY-PLASTIC)	
PI	2038	$44.00	JACKET, ORANGE DOT (MEDIUM)	MED
PI	2039	$5.00	EARPLUG W/CORD	
PI	2040	$3.00	*** LINERS (SAFETY HELMET)	
PI	2041	$44.00	JACKET, ORANGE DOT (LARGE)	LG
PI	2042	$44.00	JACKET, ORANGE DOT (X-LARGE)	X LG

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
PI	2043	$54.00	JACKET, ORANGE DOT (XX-LARGE)	XX LG
PI	2044	$54.00	JACKET, RANGE DOT (XXX-LARGE)	XXX LG
PI	2045	$8.00	T-SHIRT (MEDIUM) ORANGE	MED
PI	2046	$8.00	T-SHIRT (LARGE) ORANGE	LG
PI	2047	$8.00	T-SHIRT (X-LARGE) ORANGE	X LG
PI	2048	$8.00	T-SHIRT (XX-LARGE) ORANGE	XX LG
PI	2049	$8.00	T-SHIRT (XXX-LARGE) ORANGE	XXX LG
PI	2075	$15.49	*** MUFFS, HUSH	
PI	3766	$7.55	*** VEST, SAFETY	
PI	3767	$25.00	** VEST, FLOATING	

RODS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
RD	1159	$80.00	CAP DRIVE HEX PIONJAR HARDENED	{1'}
RD	1160	$16.00	COUPLINGS ("AW" ROD)	
RD	1165	$24.30	COUPLING ("BW" ROD)	
RD	1170	$30.20	COUPLINGS ("NW" ROD)	
RD	1275	$35.00	PVC COUPLINGS, SIZE 2" #42642	{1"}
RD	2480	$50.00	* ROD, "25.4 MM" R.P.S. (1 M EACH)	{1", 3'}
RD	2490	$42.00	ROD, "AW" (0.3 M LENGTH EACH)	{1'}
RD	2500	$37.00	ROD, "AW" (0.6 M LENGTH EACH) ***See Photo on Page 79.***	{2'}
RD	2510	$51.00	ROD, "AW" (1.5 M LENGTH EACH)	{5'}
RD	2520	$89.00	ROD, "AW" (3.0 M LENGTH EACH)	{10'}
RD	2521	$100.00	TAP AW RODS NO. 21054-5 ***See Photo on Page 92.***	AW
RD	2525	$118.00	ROD, "BW" (1.5 M LENGTH EACH) ***See Photo on Page 79.***	{5'}
RD	2529	$50.00	ROD, "NW" 1 FOOT LENGTH ***See Photo on Page 79.***	{1"}
RD	2530	$72.00	ROD, "NW" (0.6 M LENGTH EACH)	{2'}
RD	2540	$110.00	ROD, "NW" (1.5 M LENGTH EACH)	{5'}
RD	2550	$190.00	ROD, "NW" (3.0 M LENGTH EACH)	{10'}
RD	2551	$130.00	TAP NW RODS NO. 21054-9 ***See Photo on Page 92.***	NW
RD	2560	$43.00	* ROD, PION JAR (25.4 MM DIA. X 1 M LONG)	{1" X 3'}
RD	3785	$21.95	** WIPERS, RUBBER ("NW" ROD)	

Photo 26



Rods "NW"

Cat. No.	Length
2530	2'
2540	5'
2550	10'
2529	1'

Rods "AW"

Cat. No.	Length
2490	1'
2500	2'
2510	5'
2520	10'

Rods "BW"

Cat. No.	Length
2525	5'

ROPE

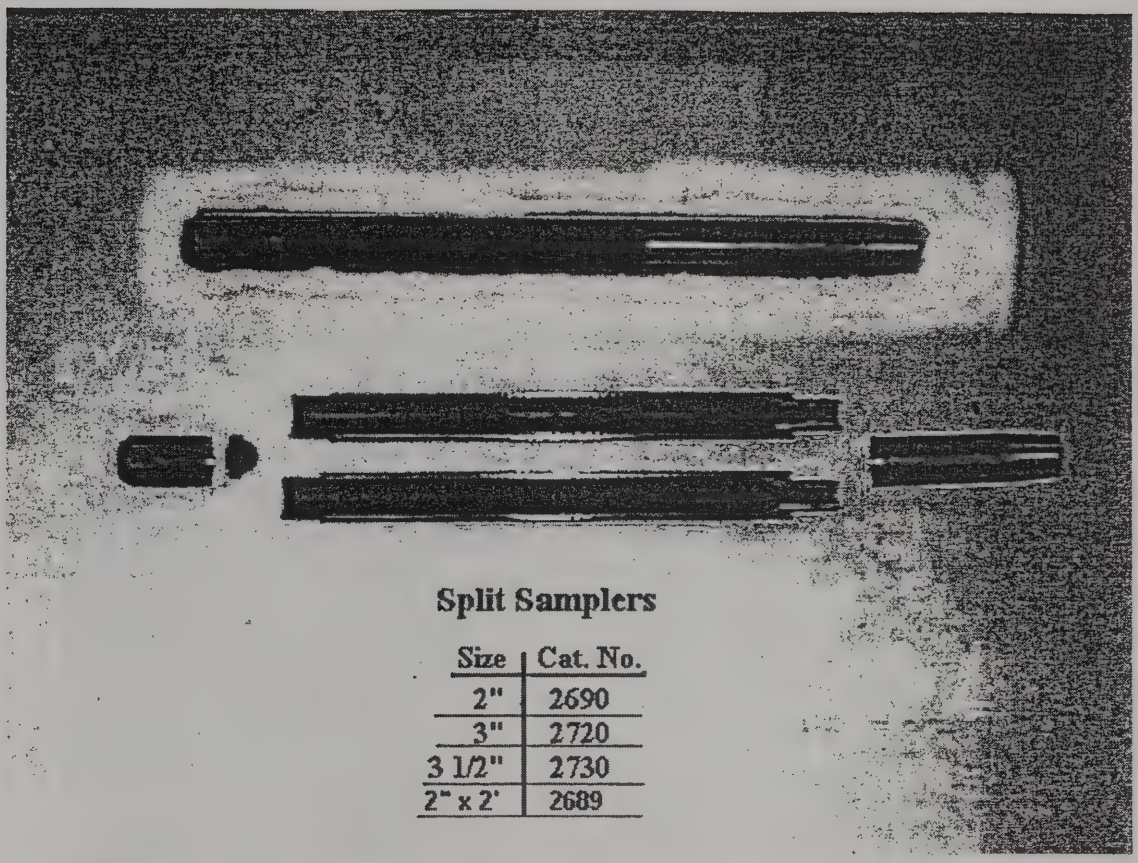
GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
RP	2580	$45.00	* ROPE, MANILA (6 MM BALE)	{¼"}
RP	2590	$56.95	* ROPE, MANILA (13 MM BALE)	{½"}
RP	2600	$117.15	* ROPE, MANILA (19 MM BALE)	{¾"}
RP	2605	$210.00	ROPE, 19 MM NYLON BALE (FOR RAFT ANCHORS-L.M.)	{¾"}
RP	2610	$183.55	* ROPE, MANILA (25.4 MM BALE)	{1"}

SAMPLERS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
SA	270	$95.00	BARREL, MAIN (25.4 MM R.P.S.)	{1"}
SA	780	$1.00	CAPS (150 MM) BRASS	{3"}
SA	790	$.30	CAPS (88.9 MM LINER)	{3½"}
SA	800	$.30	CAP, PVC (150 MM PRESS TYPE)	{3"}
SA	860	$25.00	CASING (25.4 MM R.P.S. 1 M EACH)	{1", 3'}
SA	1150	$40.00	CONNECTOR, SPECIAL (SAMPLER ADAPTER)	
SA	1285	$6.75	CUPS, 88.9 MM LEATHER PISTON SAMPLE	{3½"}
SA	1510	$59.00	* HAMMER (25 MM R.P.S.)	{1"}
SA	1640	$112.60	HEAD, DRIVE (63.5 MM X 63.5 MM "AW" ROD)	{2½", 2½"}
SA	1644	$45.00	HEAD, SAMPLER (51 MM SPLIT BARREL)	{2"}
SA	1680	$110.00	HEAD, SHELBY (88.9 MM)	{3½"}
SA	1790	$89.00	JACK (25.4 MM R.P.S.)	{1"}
SA	2050	$15.00	LINERS (SS-76 MM WITH CAPS)	{3"}
SA	2340	$25.00	RETAINER, FLAP (44.5 MM)	{1¾"}
SA	2351	$1.00	RETAINER, PLASTIC (50.8 MM)	{2"}
SA	2371	$7.70	RETAINER, PLASTIC (88.9 MM)	{3½"}
SA	2401	$1.00	RING, "O" (HYD. SAMPLER)	
SA	2660	$144.00	SAMPLER (44.5 MM SOLID) ***See Photo on Page 85.***	{1¾"}
SA	2670	$125.00	SAMPLER (50.8 MM H.D. SPLIT-WITH PLUG)	{2"}
SA	2690	$110.00	SAMPLER (50.8 MM LYNAC) ***See Photo on Page 85.***	{2"}
SA	2720	$150.00	SAMPLER (76.2 MM SPLIT)	{3"}
SA	2730	$236.00	SAMPLER (88.9 MM SPLIT FOR LINER) ***See Photo on Page 85.***	{3½"}
SA	2740	$350.00	SAMPLER (88.9 MM SOLID 1 M LONG)	{3½", 36"}
SA	2750	$165.00	* SAMPLER (STATIONARY PISTON 76.2 MM)	{3"}
SA	2760	$118.00	* SAMPLER (STATIONARY PISTON 88.9 MM)	{3½"}
SA	2790	$1.30	SCREW (SHELBY HEAD)	
SA	3020	$30.00	SHOE, SAMPLER (76.2 MM)	{3"}

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
SA	3030	$29.00	SHOE, SAMPLER (88.9 MM)	{3½"}
SA	3720	$20.00	TUBE, SHELBY (88.9 MM) ***See Photo on Page 86.***	{3½"}
SA	3780	$1.60	WAX (MIXED KG)	

Photo 27



Split Samplers

Size	Cat. No.
2"	2690
3"	2720
3 1/2"	2730
2" x 2'	2689

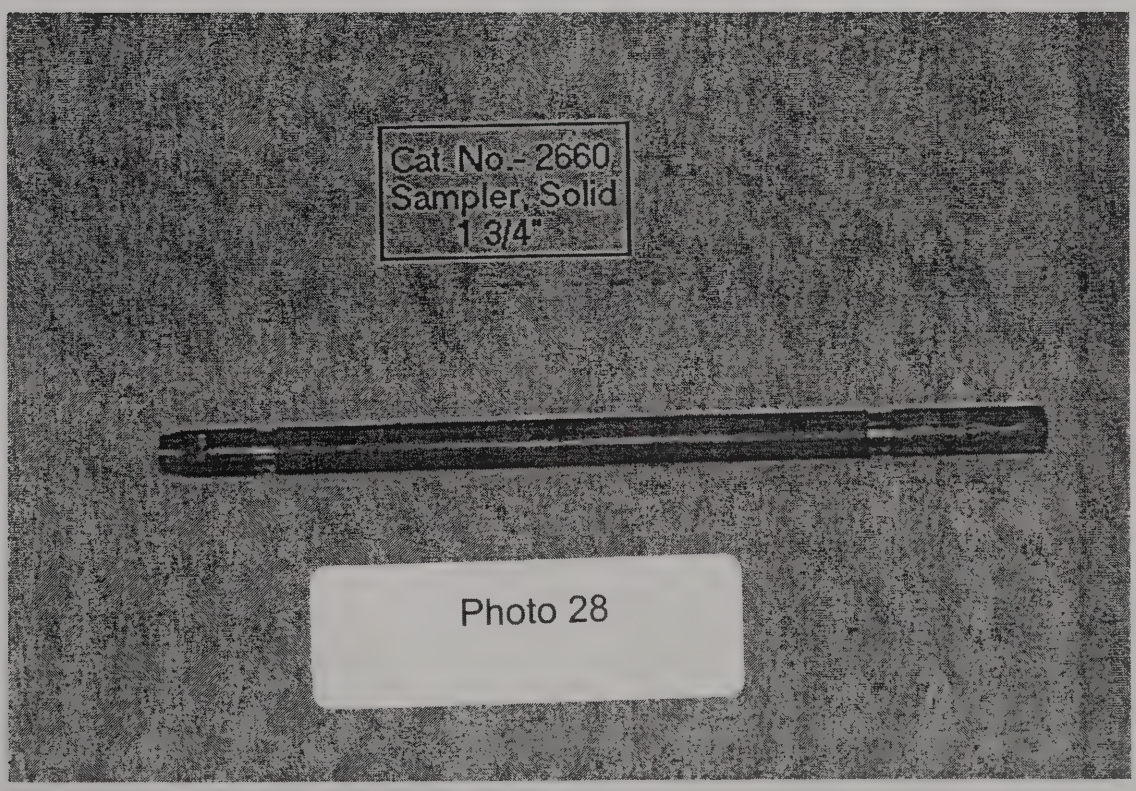
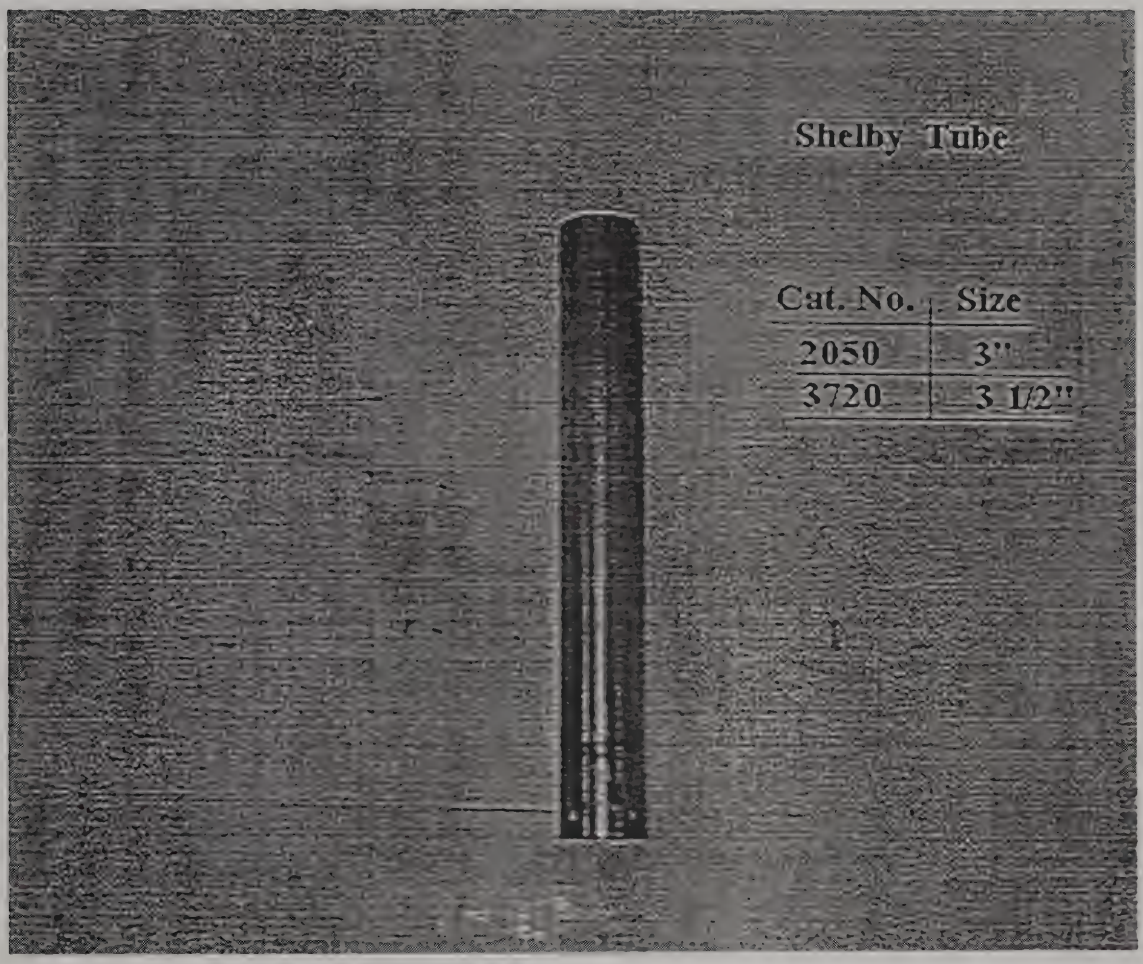


Photo 28

Photo 29



SUBS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
SB	3210	$46.00	SUB ("AW" ROD BOX TO 63.5 MM PIPE PIN)	{2½"}
SB	3215	$59.00	SUB ("AW" ROD BOX TO "A" ROD PIN)	
SB	3220	$65.00	SUB ("AW" ROD BOX TO "BW" CASING PIN)	
SB	3225	$40.00	SUB ("AW" ROD BOX TO "BX" CASING PIN	
SB	3230	$42.00	SUB ("AW" ROD BOX TO "BW" ROD PIN)	
SB	3232	$75.00	SUB ("AW" ROD BOX TO "BW" ROD BOX)	
SB	3233	$75.00	SUB ("AW" ROD BOX TO "NW" ROD BOX)	
SB	3250	$58.00	SUB ("AW" ROD BOX TO "NW" ROD PIN) ***See Photo on Page 90.***	
SB	3260	$25.00	SUB ("AW" ROD BOX TO "NX" CASING PIN)	
SB	3265	$70.00	SUB ("AW" ROD BOX TO "NW" CASING PIN)	
SB	3290	$65.00	SUB ("AW" ROD BOX TO 100 MM X 178 MM THREAD PIN)	{1¼" X 7"}
SB	3291	$45.00	SUB 1/14 TPI PIN-1-1/4 BOX 7 THRD ***See Photo on Page 90.***	{1¼"X1¼"
SB	3302	$75.00	SUB ("AW" ROD PIN TO "NW" ROD PIN)	
SB	3310	$90.00	SUB ("BW" CASING BOX TO "AW" ROD PIN)	
SB	3314	$65.00	SUB ("BW" CASING BOX TO "NW" CASING PIN)	
SB	3315	75.00	SUB ("BW" CASING BOX TO "NW" ROD PIN)	
SB	3320	$85.00	SUB ("BW" CASING PIN TO 63.5 MM PIPE PIN)	{2½"}
SB	3325	$54.00	SUB ("NW" CASING BOX TO "NX" CASING BOX)	
SB	3327	$56.59	SUB ("NW" CASING BOX TO "NX" CASING PIN)	
SB	3330	$54.00	SUB ("NW" ROD BOX TO "AW" ROD PIN) ***See Photo on Page 90.***	
SB	3331	$78.00	SUB ("NW" ROD BOX TO "BW" CASING PIN)	
SB	3332	$75.95	SUB ("AW" ROD BOX TO BW ROD BOX)	
SB	3340	$65.50	SUB ("NW" ROD BOX TO "N" ROD PIN)	
SB	3345	$71.00	SUB ("NW" ROD BOX TO "NW" CASING PIN)	
SB	3350	$34.00	SUB ("NW" ROD BOX TO "NX" CASING PIN)	
SB	3360	$90.00	SUB ("NW" ROD BOX TO 63.5 MM PIPE PIN)	{2½"}
SB	3370	$89.00	SUB ("NW" ROD BOX TO "HW" CASING PIN)	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
SB	3380	$105.00	SUB ("NW" ROD BOX 60.3 MM A.P.I.)	{2⅜"}
SB	3390	$160.00	SUB ("NW" ROD BOX TO 88.9 MM A.P.I.)	{3½"}
SB	3400	$60.00	SUB (31.8 MM X 178 MM THREAD BOX TO "AW" ROD PIN)	{1¼", 7"}
SB	3402	$50.00	SUB (31.8 MM X 178 MM THREAD PIN TO 31.8 MM X 178 MM THREAD PIN)	
SB	3405	$68.10	SUB (41.3 MM HEX PIN TO NW" ROD PIN)	{1⅝"}
SB	3410	$129.00	SUB ("HW" CASING PIN TO 101.6 MM PIPE PIN)	{4"}
SB	3417	$150.00	"NW" ROD BOX TO "PW" CASING PIN	

PHOTO 30

Pin to Pin		
Pin	**Pin**	**Cat. No.**
AW	NW	3302
AW	2½" Pipe	3320
1⅝" Hex.	NW	3405
HW	4" Pipe	3410

Box to Box		
Box	**Box**	**Cat. No.**
AW	BW	3232
AW	NW	3233
AW	BW	3332
NW	2⅜" A.P.I.	3380
NW	3½" A.P.I.	3390

Box to Pin		
Box	**Pin**	**Cat. No.**
AW	2½" Pipe	3210
AW	AW	3215
AW	BWC	3220
AW	BW	3230
AW	NW	3250
AW	NWC	3265
AW	1¼"x7"	3290
BWC	AW	3310
BWC	NWC	3314
BWC	NW	3315
NW	AW	3330
NW	BWC	3331
NW	NW	3340
NW	NWC	3345
NW	2½" Pipe	3360
NW	HWC	3370
1¼"x7"	AW	3400
1 1/4 "x7"	1 1/4 "x7"	3291

PHOTO 31

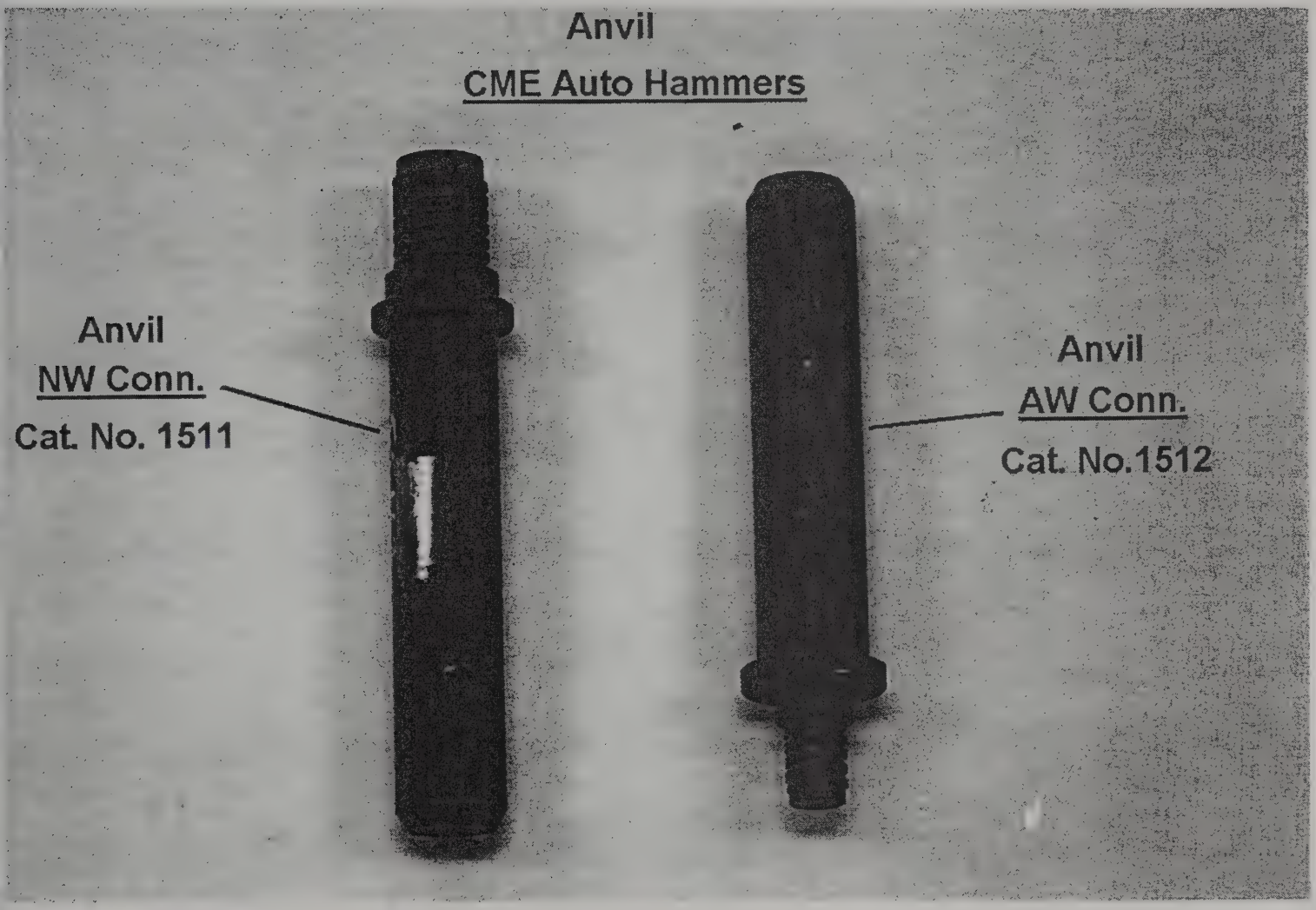

Anvil
CME Auto Hammers
Anvil
NW Conn.
Cat. No. 1511
Anvil
AW Conn.
Cat. No.1512

PHOTO 32

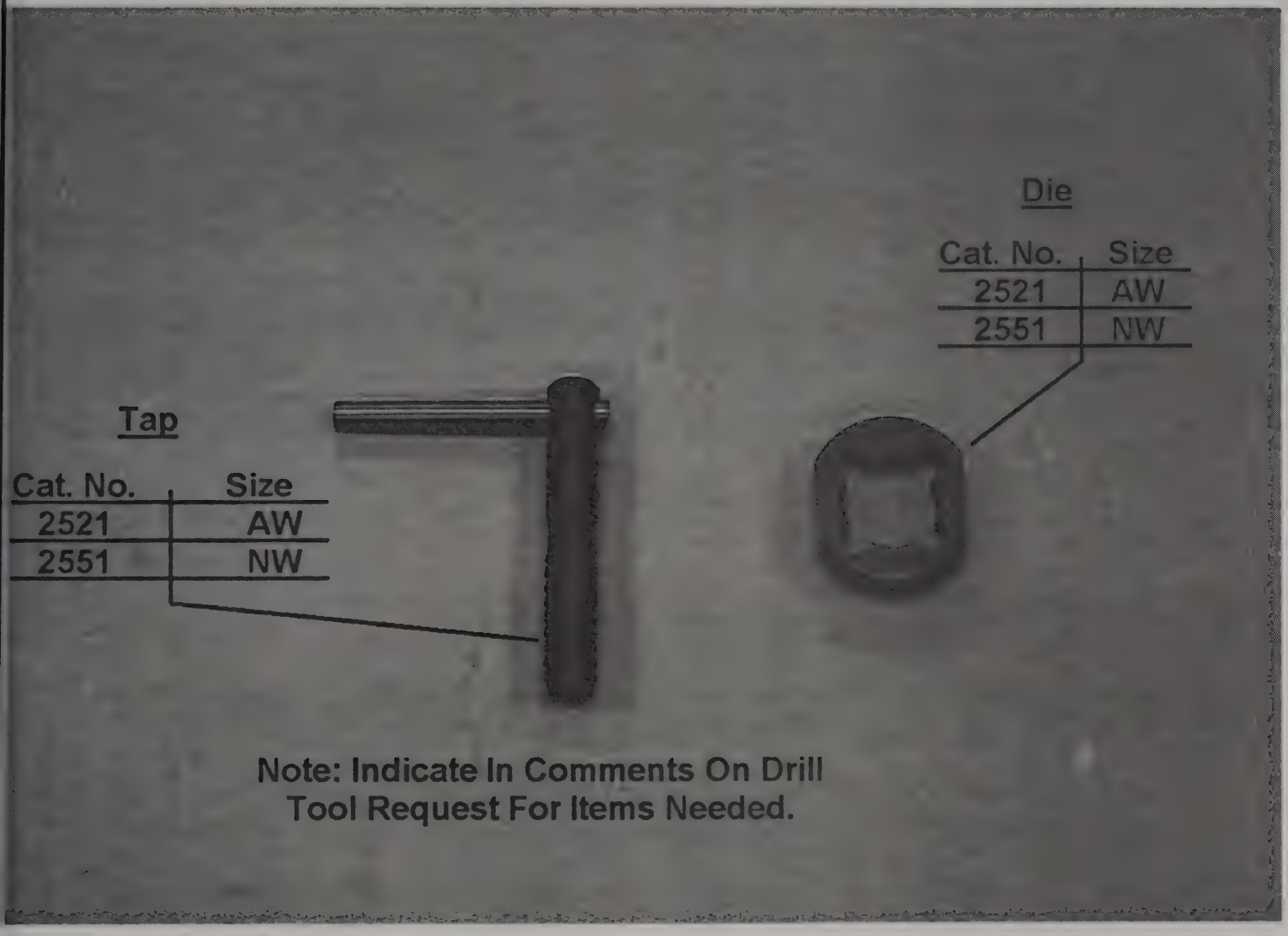
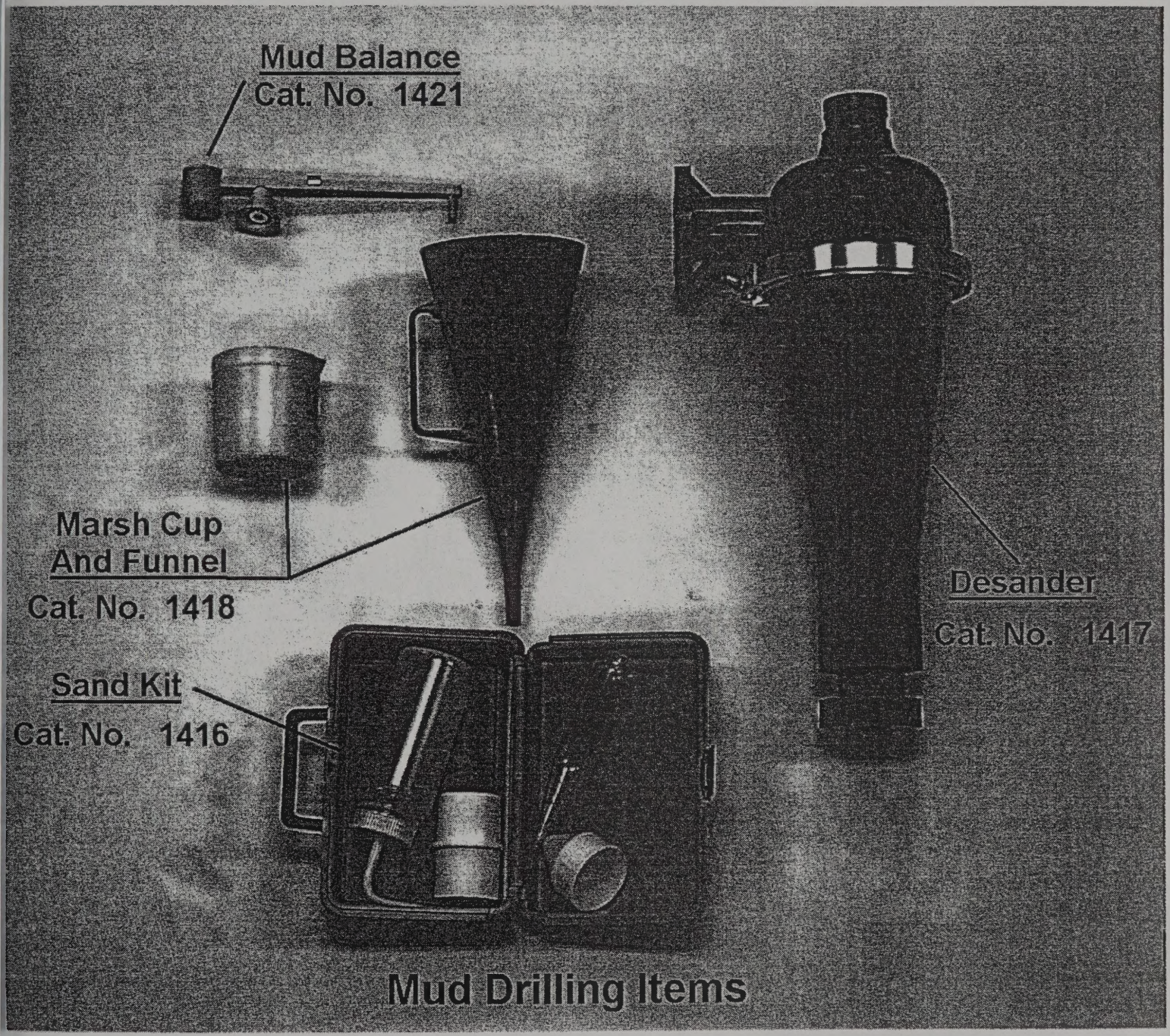

Die
Cat. No. Size
2521 AW
2551 NW
Tap
Cat. No. Size
2521 AW
2551 NW
Note: Indicate In Comments On Drill
Tool Request For Items Needed.

PHOTO 33


Mud Balance
Cat. No. 1421
Marsh Cup
And Funnel
Cat. No. 1418
Sand Kit
Cat. No. 1416
Desander
Cat. No. 1417
Mud Drilling Items

00116
LRI